Study plan

Name of study plan: Architektura a stavitelství

Faculty/Institute/Others: Department: Branch of study guaranteed by the department: Welcome page Garantor of the study branch: Program of study: Architecture and Building Sciences Type of study: Bachelor full-time Required credits: 240 Elective courses credits: 0 Sum of credits in the plan: 240 Note on the plan: tento studijní plán platí od akademického roku 2023/2024

Name of the block: Compulsory courses Minimal number of credits of the block: 187 The role of the block: Z

Code of the group: BA20150100 Name of the group: Architektura a stavitelství, 1. semestr Requirement credits in the group: In this group you have to gain at least 28 credits Requirement courses in the group: In this group you have to complete at least 6 courses Credits in the group: 28 Note on the group:

Note on the grou	ip:					
Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
101M1A	Mathematics 1A Ivana Pultarová, Jan Lama , Michal Zdražil, Zden k Skalák, Milan Bo ík, Michal Beneš, Petr Ku era, Monika Rencová, Martin Soukenka, Zden k Skalák Zden k Skalák (Gar.)	Z,ZK	6	2P+2C	Z,L	Z
123SHMA	Building Materials Alena Vimmrová, Miloš Jerman, Eva Vejmelková Alena Vimmrová Alena Vimmrová (Gar.)	Z,ZK	3	2P+1C	z	Z
124PSA1	Buildings 1 Petr Hájek, Jan R ži ka, Magdaléna Novotná, Veronika Ka ma íková Petr Hájek Petr Hájek (Gar.)	Z,ZK	5	2P+2C	Z	Z
129AAKO	Architectural composition studio Ladislav Podracký, Vojt ch Vodi ka, Nikola Puchelová, Klára Škodová, Petr Aster, Kamila Housová Mizerová, Richard Bartík, Libor Fránek, Helena Hexnerová, Zuzana Pešková Jaroslav Da a (Gar.)	КZ	4	3C	Z	Z
129GPA	Graphic Presentation of Architecture Nikola Puchelová, Petr Aster, Kamila Housová Mizerová, Helena Hexnerová, Vojt ch Dvo ák, Jan Kašpar, Zuzana Pešková, Vít Jurica, Eva Antošová, Zuzana Pešková Zuzana Pešková (Gar.)	κz	5	5C	Z	Z
129UNA	Introduction to professional practise Václav Dvo ák, Petra Novotná, Jaroslav Da a, Radek Zykan, Petr Lédl, Luboš Knytl, Michal Šourek, Petr Šikola Petr Šikola Luboš Knytl (Gar.)	ZK	5	4P	Z	Z

Characteristics of the courses of this group of Study Plan: Code=BA20150100 Name=Architektura a stavitelství, 1. semestr

101M1A	Mathematics 1A	Z,ZK	6					
https://mat.fsv.cvut.cz/v	yuka/bakalari/eng/zs/MT01/							
123SHMA	Building Materials	Z,ZK	3					
Building materials - bas	c course. Clasification of the materials. Structure of materials. Main properties of materials. Application of materials in buildir	ng constructions. I	introduction to					
material testing.								
124PSA1	Buildings 1	Z,ZK	5					
The concept of design	of building structures with a comprehensive consideration of the functional requirements imposed on individual elements. Rec	quirements for bu	ilding structures,					
structural system, intera	action of elements, spatial effect of the structural system. Vertical load-bearing structures (functions, requirements, principles	of the structural of	lesign of walls,					
columns), floor structur	es (functions, requirements, principles of the structural design of vaults, wooden ceilings, reinforced concrete ceilings, ceramic	c concrete ceiling	s, steel and steel					
concrete ceilings). Expa	insion joints in load-bearing systems. Structural systems of single and multi-storey buildings, structural systems of long-span	structures.						
129AAKO	Architectural composition studio	KZ	4					
Students learn to apply	Students learn to apply knowledge acquired in the subject Introduction to Architecture Design to simple abstract tasks. Principles of Form and Space Composition. Idea and form of							
abstract surface and sp	atial composition. The physical model as a form of verification of compositional intentions.							

129GPA Graphic Presentation of Architecture	KZ	5				
The GPA course is divided into 2 parallel and complementary parts. One part is devoted to pictorial representation and consists of three lessons per vision of the second	eek. Students will	learn the basics				
of architectural drawing and methods of representation - drawing objects in orthogonal, isometric and perspective form, drawing offset figures, drawing greenery and basic geometric						
solids. The second part is devoted to mastering the basic tools of computer imaging and is subsidised for 2 hours. Students will learn how to make a vector sketch, create a simple 3D						
model of an object, use post-production to present the object, and assemble the resulting poster from the output of various computer programs. The	course therefore	has a total of 5				
hours of direct teaching per week and is worth 5 credits, which means that a student should spend 125 hours on the course in one semester (75 ho	urs on drawing + 5	50 hours on				
computer graphics), direct teaching takes 65 hours (39 hours on drawing + 26 hours on computer graphics), i.e. for self-study and independent wor	a student should	have 60 hours				
(36 hours on drawing + 24 hours on computer graphics).						
129UNA Introduction to professional practise	ZK	5				
The lectures are divided into two tracks. The first is devoted to architectural composition, the basics of understanding the use of compositional principles in architectural design and						
	pies in architectur	al design and				
understanding their effects. It also deals with other key means of architecture, such as structure, color, and material. All the attributes illuminated are		U U				
	, presented in their	basic, pure form				
understanding their effects. It also deals with other key means of architecture, such as structure, color, and material. All the attributes illuminated are	, presented in their ms of the basic pri	basic, pure form nciples of space				
understanding their effects. It also deals with other key means of architecture, such as structure, color, and material. All the attributes illuminated are and are further demonstrated on existing buildings of historical, but especially contemporary architecture. The second section is devoted to the proble	, presented in their ms of the basic pri	basic, pure form nciples of space				

Code of the group: BA20150200

Name of the group: Architektura a stavitelství, 2. semestr Requirement credits in the group: In this group you have to gain at least 27 credits Requirement courses in the group: In this group you have to complete at least 6 courses Credits in the group: 27

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
101KGA1	Constructive Geometry A Michal Zdražil, Petra Vacková, Iva Slámová, Iva Malechová, Jozef Bobok, Hana Lakomá, Iva Kivková Hana Lakomá Iva Malechová (Gar.)	Z,ZK	5	2P+2C	L,Z	Z
101M2A	Mathematics 2A Ivana Pultarová, Jan Lama , Zden k Skalák, Milan Bo ík, Michal Beneš, Monika Rencová, Martin Soukenka, Yuliya Namlyeyeva, Iva Slámová, Petr Ku era Petr Ku era (Gar.)	Z,ZK	4	2P+2C	L,Z	Z
124PSA2	Buildings 2 Magdaléna Novotná, Zuzana Rácová, Veronika Ka ma íková, Ji í Pazderka Ji í Pazderka Ji í Pazderka (Gar.)	Z,ZK	5	2P+2C	L	Z
129AKR	Architectural drawing Kamila Housová Mizerová, Jan Kašpar, Zuzana Pešková, Eva Antošová, Radek Macke, Ivo Chvojka, Ctibor Havelka, Vratislav Šev ík, Dalibor Smutný, Zuzana Pešková Zuzana Pešková (Gar.)	κz	4	3C	L	Z
129ATZ1	Introductory design studio 1 Ladislav Podracký, Vojt ch Vodi ka, Petr Aster, Martin Šnorbert, Richard Bartík, Helena Hexnerová, Hana Bo íková, Jolana Zdobinská, Tomáš underlík, Jana Ho ická Jana Ho ická (Gar.)	κz	4	4C	L	Z
132SMA1	Structural Mechanics 1A Ji í N me ek, Aleš Jíra, Kristian D'Amico, Petr Bo an, Tomáš Janda, Karel Pohl, Tomáš Plachý Aleš Jíra Aleš Jíra (Gar.)	Z,ZK	5	2P+2C	L,Z	Z

Characteristics of the courses of this group of Study Plan: Code=BA20150200 Name=Architektura a stavitelství, 2. semestr

101KGA1 Constructive Geometry A	Z,ZK	5					
Projections and projective methods. Axonometry. Oblique projection. Orthogonal axonometry. Displaying prisms, cones, cylinders, pyramids, balls. S	imple problems in	axonometry.					
Basics of lighting of solids and groupes of solids. Perspective projection. Photogrammetry. Curves, parametrisation. Helical surfaces. Quadrics. Hype	rbolic paraboloid,	conoids and					
cylindroids. Next surfaces in building industry.							
101M2A Mathematics 2A	Z,ZK	4					
https://mat.fsv.cvut.cz/vyuka/bakalari/eng/ls/MT02/							
124PSA2 Buildings 2	Z,ZK	5					
Staircases, sloping ramps, lift shafts - requirements, structural and material solutions, basics of typology, design principles, construction details, railing	. Building foundat	ions - foundation					
conditions, types of foundations, requirements, building plinth area (construction details). Basement - solution of basement walls, requirements, protection	ection against wate	er, waterproofing					
systems. Structural expansion joints in buildings - principles of joints design in bearing structures, thermal expansion, compensation of differences in	n settlement, cons	truction details.					
Roof truss systems.							
129AKR Architectural drawing	KZ	4					
In architectural drawing courses, students learn to correctly perceive and "see" shapes and masses in their proportional relationships, spatial contex	t, scale and visua	I perspective.					
Models are first assemblies of geometric solids, then supplemented with draperies and other objects. The listener learns to lay out and optimally pla	ce the drawing in	the format and					
to use view, horizon and runs to build the final composition. Ongoing instruction aids in pencil progression while profiling personal handwriting. The g	oal is to develop s	patial vision and					
gain skills in drawing and sketching, which is indispensable as a means of communication in architectural design. Consistent attention is paid to asp	ects of shape and	I mass in space,					
the expression of light and shadow, plasticity, structure and differentiation of materials.							
129ATZ1 Introductory design studio 1	KZ	4					
The Studio is the student's first experience of designing a specific building on a specific site. This course follows architectural composition course, whi	ch focuses on arc	hitectural design					
as an abstract composition of smaller parts in relation to a larger whole. The core of the course is the architectural design process applied to the design	sign of a simple bu	uilding. The main					
goal of the course in general is the mastery of architectural design techniques along with the further development of creativity initiated in architectural	al composition. Th	e specific aim of					
the work is to design a small building - an operationally simple object in the context of specified conditions.							
132SMA1 Structural Mechanics 1A	Z,ZK	5					
Concurrent forces, force systems acting on rigid bodies in space/plane, moment of a force about a point and line. Supports of a rigid body, reaction for	orces. Compound	two-dimensional					
structures. Trusses. Internal forces diagrams of simple statically determinate plane structures and compound two-dimensional structures. Multiaxially	loaded cantileve	r. Definition of					
normal stress and prepositions of its distribution in a cross section. Equivalence of internal forces. Geometry of mass and areas, centre of gravity and	d moments of ine	rtia.					

Code of the group: BA20150300 Name of the group: Architektura a stavitelství, 3. semestr Requirement credits in the group: In this group you have to gain at least 28 credits Requirement courses in the group: In this group you have to complete at least 6 courses Credits in the group: 28

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
101M3A	Mathematics 3A Ivana Pultarová, Jan Lama , Zden k Skalák, Milan Bo ík, Michal Beneš, Monika Rencová, Martin Soukenka, Iva Malechová, Jozef Bobok, Jozef Bobok Jozef Bobok (Gar.)	Z,ZK	4	1P+2C	Z	Z
124SFA	Building Physics 1A Jaroslav Vychytil, Zbyn k Svoboda, Lenka Maierová, Pavel Kopecký Jaroslav Vychytil Jaroslav Vychytil (Gar.)	Z,ZK	7	4P+3C	Z	Z
125TBA1	Building Services Systems 1 Karel Kabele, Stanislav Frolík Karel Kabele (Karel Kabele (Gar.)	Z,ZK	4	2P+2C	Z	Z
129ATZ2	Introductory design studio 2 Richard Bartík, Libor Fránek, Jana Ho ická, Vojt ch Dvo ák, Jan Kašpar, Petra Novotná, Ji í Trojan, Št pán Lajda, Ji í Pošmourný, Jana Ho ická Jana Ho ická (Gar.)	ΚZ	6	4C	Z	Z
129NB01	Architectural typology 1 Tomáš underlík, Jana Ho ická, Petra Novotná, Pavel Filsak, Radek Zykan, Petr Lédl, Luboš Knytl Luboš Knytl Luboš Knytl (Gar.)	Z,ZK	3	1P+2C	z	Z
132PRA	Strength of Materials A Tomáš Plachý, Vít Šmilauer, Eva Novotná, Zden k Prošek Vít Šmilauer Vít Šmilauer (Gar.)	Z,ZK	4	1P+2C	Z,L	Z

Characteristics of the courses of this group of Study Plan: Code=BA20150300 Name=Architektura a stavitelství, 3. semestr

101M3A	Mathematics 3A	Z,ZK	4			
https://mat.fsv.cvut.cz/v	/uka/bakalari/M3A					
124SFA	Building Physics 1A	Z,ZK	7			
Heat transfer, Fourier la	ws, thermal resistance, thermal transmittance, mean thermal transmittance, energy performance of buildings, energy need for	or heating, energy	v use, primary			
energy, diffusion and condensation of water vapor, internal surface temperature, risk of mould growth, thermal bridges and joints. Solar radiation and its importance. Determining the						
position of the Sun in th	e sky using numerical and graphical methods. Insolation. Meaning of terms, requirements. Daylighting. Criteria and limits. Lig	hting systems. Th	ne principle of			
determining the daylight	factor by calculation and measurement. Parts of the daylight factor. Qualitative aspect of daylighting (uniformity, direction of	light incidence, et	c.). Concepts of			
sound and noise. Criteri	a and limits. Acoustic quantities, symbols and calculation. Sound propagation outdoors and indoors. Sound attenuation due t	to aperture. Direct	t and diffuse			
sound field. Reverberation	on time and reverberation radius. Sound absorbing structures. Structural acoustics. Sound insulation. Sound reduction index. Ir	npact noise. Indire	ect transmission.			
125TBA1	Building Services Systems 1	Z,ZK	4			
Basic course in building	services systems - water supply, drainage, gas supply and heating systems.					
129ATZ2	Introductory design studio 2	KZ	6			
-	Introductory design studio 2 bus course of Introductory design studio 1. The main focus of the course is to extend the application of the architectural design					
The studio follows previ	, ,	gn process to incl	ude typological			
The studio follows previ and ergonomic issues. T	bus course of Introductory design studio 1. The main focus of the course is to extend the application of the architectural design	gn process to incl procedures, the ac	ude typological equisition of work			
The studio follows previ and ergonomic issues. T	bus course of Introductory design studio 1. The main focus of the course is to extend the application of the architectural design The main aim of the general teaching is, along with the further development of creativity, the mastery of architectural design p	gn process to incl procedures, the ac	ude typological equisition of work			
The studio follows previ and ergonomic issues. T habits and the layout of 129NB01	bus course of Introductory design studio 1. The main focus of the course is to extend the application of the architectural design The main aim of the general teaching is, along with the further development of creativity, the mastery of architectural design p design work applied to small-scale assignments. The specific aim of the work is the design of a small building, typologically s	gn process to incl procedures, the ac specified, with a h	ude typological equisition of work lousing element.			
The studio follows previ and ergonomic issues. T habits and the layout of 129NB01	bus course of Introductory design studio 1. The main focus of the course is to extend the application of the architectural design the main aim of the general teaching is, along with the further development of creativity, the mastery of architectural design p design work applied to small-scale assignments. The specific aim of the work is the design of a small building, typologically s Architectural typology 1	gn process to incl procedures, the ac specified, with a h	ude typological equisition of work lousing element.			
The studio follows previ and ergonomic issues. Thabits and the layout of 129NB01 The topics are focused 132PRA	bus course of Introductory design studio 1. The main focus of the course is to extend the application of the architectural design the main aim of the general teaching is, along with the further development of creativity, the mastery of architectural design p design work applied to small-scale assignments. The specific aim of the work is the design of a small building, typologically s Architectural typology 1 on the basic typology of buildings for housing, accommodation and public catering.	gn process to incl rocedures, the ac specified, with a h Z,ZK Z,ZK	ude typological equisition of work lousing element. 3 4			
The studio follows previ and ergonomic issues. T habits and the layout of 129NB01 The topics are focused 132PRA The subject deals with b	bus course of Introductory design studio 1. The main focus of the course is to extend the application of the architectural design the main aim of the general teaching is, along with the further development of creativity, the mastery of architectural design p design work applied to small-scale assignments. The specific aim of the work is the design of a small building, typologically s Architectural typology 1 on the basic typology of buildings for housing, accommodation and public catering. Strength of Materials A	gn process to incl rocedures, the ac specified, with a h Z,ZK Z,ZK ases, truss deforr	ude typological equisition of work lousing element. 3 4 mation, stress			
The studio follows previ and ergonomic issues. T habits and the layout of 129NB01 The topics are focused 132PRA The subject deals with t distribution. Bending of a	bus course of Introductory design studio 1. The main focus of the course is to extend the application of the architectural design the main aim of the general teaching is, along with the further development of creativity, the mastery of architectural design p design work applied to small-scale assignments. The specific aim of the work is the design of a small building, typologically s Architectural typology 1 on the basic typology of buildings for housing, accommodation and public catering. Strength of Materials A vasic elastoplastic analysis of cross-sections and structures. Uniaxial stress - effect of temperature, statically indeterminate c	gn process to incl rocedures, the ac specified, with a h Z,ZK Z,ZK ases, truss deform naterial model for	ude typological equisition of work lousing element. 3 4 mation, stress uniaxial tension,			

Code of the group: BA20230400

Name of the group: Architektura a stavitelství, 4. semestr

Requirement credits in the group: In this group you have to gain at least 24 credits Requirement courses in the group: In this group you have to complete at least 5 courses Credits in the group: 24

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
124PSA3	Buildings A3 Lenka Hanzalová, Vladimír Ž ára Vladimír Ž ára Vladimír Ž ára (Gar.)	Z,ZK	6	3P+2C	L	Z
125TB2	Building Services Systems 2 Daniel Adamovský, Bohumír Garlík Daniel Adamovský Daniel Adamovský (Gar.)	Z,ZK	4	2P+2C	L	Z

129NB02	Architectural typology 2 Helena Hexnerová, Tomáš underlík, B la Men Iová, Petra Novotná, Pavel Filsak, Radek Zykan, Petr Lédl, Luboš Knytl, Eva Kosíková, Ladislav Kalivoda Luboš Knytl (Gar.)	Z,ZK	5	2P+2C	L	Z
132SMA2	Structural Mechanics 2A Ji í N me ek, Aleš Jíra, Tomáš Janda, Eva Novotná, Barbora Hálková, Ji í N me ek, Dagmar Jandeková Aleš Jíra Ji í N me ek (Gar.)	Z,ZK	4	1P+2C	Z,L	z
154SGEA	Land Surveying Martin Tauchman, Tomáš Kemen, Karel Pavelka, Ji í Cajthaml, Tomáš Janata Tomáš Kemen Martin Štroner (Gar.)	Z,ZK	5	2P+2C	L	z

Characteristics of the courses of this group of Study Plan: Code=BA20230400 Name=Architektura a stavitelství, 4. semestr

124PSA3	Buildings A3	Z,ZK	6
The subject has two	parts. In the first part, the subject deals with the comprehensive design of supporting structures of roofing, indoor and multi-store	y buildings and the	structural-static
effect of the perimeter	er and roof sheathing. The second part of the course deals with the design of packaging and dividing structures. The construction	on of flat and pitche	ed roofs, the
construction of exter	nal envelopes, the construction of opening fillings and light external envelopes, and the construction of partitions, views and flo	ors are discussed.	1
125TB2	Building Services Systems 2	Z,ZK	4
This subject includes	an introduction to ventilation and air conditioning in buildings and solutions for electric instalations and artificial lighting.		
129NB02	Architectural typology 2	Z,ZK	5
The lectures are dev	bted to the issue of selected types of civil buildings, especially buildings for healthcare, education, and transport. The lectures for	cus on operational	ties, operational
circuits within structu	res, specific requirements from various points of view - from social to, for example, hygienic. They also note the urban context,	technological requ	irements and
construction specific	s, typical for the respective range of buildings. The exercises follow the lectures.		
construction specific 132SMA2	s, typical for the respective range of buildings. The exercises follow the lectures. Structural Mechanics 2A	Z,ZK	4
132SMA2		1 / 1	•
132SMA2 The subject deals wi statically determined	Structural Mechanics 2A the basic elastic analysis of statically indeterminate structures. The first part introduces the energy of deformation, the princip structures. Maxwell and Betti's theorem. Force method and its application to statically indeterminate lattice structures, continue	ble of virtual forces, ous beams, frames	deformation on , closed frames.
132SMA2 The subject deals wi statically determined Symmetrical structur	Structural Mechanics 2A the basic elastic analysis of statically indeterminate structures. The first part introduces the energy of deformation, the princip structures. Maxwell and Betti's theorem. Force method and its application to statically indeterminate lattice structures, continue es with symmetrical and antisymmetric loading. Effect of temperature effects and prescribed displacements of supports. Structure	ble of virtual forces, bus beams, frames ure compliance ma	deformation on , closed frames. trix. The second
132SMA2 The subject deals wi statically determined Symmetrical structur part of the subject di	Structural Mechanics 2A the basic elastic analysis of statically indeterminate structures. The first part introduces the energy of deformation, the princip structures. Maxwell and Betti's theorem. Force method and its application to statically indeterminate lattice structures, continue es with symmetrical and antisymmetric loading. Effect of temperature effects and prescribed displacements of supports. Structures scusses the principle of virtual displacements and the direct stiffness method. Bar stiffness matrix, non-force effects, static cond	ble of virtual forces, pus beams, frames ure compliance ma lensation, structure	deformation on , closed frames. trix. The second stiffness matrix
132SMA2 The subject deals wi statically determined Symmetrical structur part of the subject di	Structural Mechanics 2A the basic elastic analysis of statically indeterminate structures. The first part introduces the energy of deformation, the princip structures. Maxwell and Betti's theorem. Force method and its application to statically indeterminate lattice structures, continue es with symmetrical and antisymmetric loading. Effect of temperature effects and prescribed displacements of supports. Structure	ble of virtual forces, pus beams, frames ure compliance ma lensation, structure	deformation on , closed frames. trix. The second stiffness matrix
132SMA2 The subject deals wi statically determined Symmetrical structur part of the subject di	Structural Mechanics 2A the basic elastic analysis of statically indeterminate structures. The first part introduces the energy of deformation, the princip structures. Maxwell and Betti's theorem. Force method and its application to statically indeterminate lattice structures, continue es with symmetrical and antisymmetric loading. Effect of temperature effects and prescribed displacements of supports. Structures scusses the principle of virtual displacements and the direct stiffness method. Bar stiffness matrix, non-force effects, static cond	ble of virtual forces, pus beams, frames ure compliance ma lensation, structure	deformation on , closed frames. trix. The second stiffness matrix
132SMA2 The subject deals wi statically determined Symmetrical structur part of the subject di and localization. Cor 154SGEA	Structural Mechanics 2A the basic elastic analysis of statically indeterminate structures. The first part introduces the energy of deformation, the princip structures. Maxwell and Betti's theorem. Force method and its application to statically indeterminate lattice structures, continue es with symmetrical and antisymmetric loading. Effect of temperature effects and prescribed displacements of supports. Structures scusses the principle of virtual displacements and the direct stiffness method. Bar stiffness matrix, non-force effects, static cond inputer solutions of basic construction types. The third part of the course deals with the analysis of plates and simplified method	ble of virtual forces, bus beams, frames ure compliance ma lensation, structure ls of solving cross-s Z,ZK	deformation on , closed frames. trix. The second stiffness matrix stressed plates. 5
132SMA2 The subject deals wi statically determined Symmetrical structur part of the subject di and localization. Cor 154SGEA Basic information on	Structural Mechanics 2A the basic elastic analysis of statically indeterminate structures. The first part introduces the energy of deformation, the princip structures. Maxwell and Betti's theorem. Force method and its application to statically indeterminate lattice structures, continue es with symmetrical and antisymmetric loading. Effect of temperature effects and prescribed displacements of supports. Structu scusses the principle of virtual displacements and the direct stiffness method. Bar stiffness matrix, non-force effects, static cond nputer solutions of basic construction types. The third part of the course deals with the analysis of plates and simplified method Land Surveying	be of virtual forces, bus beams, frames ure compliance ma lensation, structure is of solving cross-s Z,ZK asics of setting-out	deformation or , closed frames trix. The second stiffness matrix stressed plates. 5 , maps for

Code of the group: BA20230500

Name of the group: Architektura a stavitelství, 5. semestr Requirement credits in the group: In this group you have to gain at least 30 credits Requirement courses in the group: In this group you have to complete at least 7 courses Credits in the group: 30

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
124PSA4	Buildings A4 Zuzana Rácová, Veronika Ka ma íková, Hana Najmanová, Pavla Ryparová, Daniela Šejnová Pitelková, Petr Hejtmánek, Martin Jiránek, Marek Pokorný, Malila Noori Marek Pokorný Martin Jiránek (Gar.)	Z,ZK	5	2P+1C	z	Z
127UB01	Urban Planing 1 Vojt ch Ko alka, Ivan Kaplan, Václav Jetel Václav Jetel Ivan Kaplan (Gar.)	Z,ZK	6	2P+2C	Z	Z
129AT01	Design studio 1 Richard Bartík, Libor Fránek, Helena Hexnerová, Jolana Zdobinská, Jan Kašpar, B la Men Iová, Ladislav Tichý, Petra Novotná, Pavel Filsak, Petr Lédl Petr Lédl (Gar.)	κz	6	6C	Z	Z
129DA01	History of Architecture 1 Josef Záruba Pfeffermann Josef Záruba Pfeffermann Josef Záruba Pfeffermann (Gar.)	ZK	3	2P	Z	Z
129NB03	Architectural typology 3 Jan R ži ka, Nikola Puchelová, Petra Novotná, Radek Zykan, Luboš Knytl, Eva Kosíková, Št pánka Hájková, Tomáš Šenberger Jana Ho ická Luboš Knytl (Gar.)	Z	3	1P+2C	Z	Z
133BZA1	Concrete and Masonry Structures in Architecture 1 Hana Hanzlová, Karel Šeps Hana Hanzlová Hana Hanzlová (Gar.)	Z,ZK	5	2P+2C	Z	Z
135GEA	Geology Jan Jelínek, Svatoslav Chamra, Jan Schröfel, Richard Malát, Kate ina Ková ová Kate ina Ková ová Kate ina Ková ová (Gar.)	Z,ZK	2	1P+1C	z	Z

Characteristics of the courses of this group of Study Plan: Code=BA20230500 Name=Architektura a stavitelství, 5. semestr

124PSA4 Buildings A4	Z,ZK	5						
Healthy Buildings Constituents of indoor microclimate, hazardous substances (VOCs, HFRs, heavy metals, moulds, microbes, aerosols, radionuclides, etc.), their sources and health								
effects. Influence of building structures and materials on quality of indoor microclimate. Design of buildings with respect to optimisation of indoor micro	roclimate. Fire Saf	fety Analysis of						
fire - course of fire, burning process, fire loading; legislation and European Standards; fire safety solutions - fire project, requirement for fire resistance of buildings, escape ways, distance separation, fire-fighting equipment; fire behaviour of the most used materials (wood, steel, concrete, plastics); protection of building materials against fire (brickwork, concreting,								
distance separation, fire-fighting equipment; fire behaviour of the most used materials (wood, steel, concrete, plastics); protection of building materials against fire (brickwork, concreting, plasters and sprays, coatings, impregnates of wood, encasements, glued facings of mineral fibres); sandwiches from fire point of view; influence of claddings on the course fire; passive								
plasters and sprays, coatings, impregnates of wood, encasements, glued facings of mineral fibres); sandwiches from fire point of view; influence of cla	ddings on the cou	irse fire; passive						
protection of building structures - fire walls, fire glazed structures, fire ceiling, draft stops and seals; repressive measures - electric fire signalling, station	nary extinguishing	devices, smoke						
extract, hydrant systems.								
127UB01 Urban Planing 1	Z,ZK	6						
The course introduces the student to individual functional systems in cities and their zones and prepares him/her for designing parts of settlements f	rom the perspecti	ve of urban						
typology and urban design conditions. In particular, it focuses on the design conditions of residential zones and parcelling, traffic calming and segreg	ation, public and	commercial						
amenities, public green spaces, etc. It supplements the overview and conceptual principles with a number of examples from the Czech Republic and	abroad. The exer	cise is intended						
to apply the knowledge to the design of an urban residential complex for the first time, first using a model example.								
129AT01 Design studio 1	KZ	6						
Studio creation is an application subject in which students apply the knowledge gained from a wide range of architectural disciplines with their own a	rtistic opinion and	creativity. The						
theme of the studio is the design of an apartment building of tangible size, with an emphasis on the idea, the concept of the solution, the relationship	of the designed	object to the						
surroundings, the object's own spatial structure, layout solution, structural feasibility. It is essential to find a modern artistic and aesthetic expression i	in the context of th	ne place and the						
surrounding buildings. Understanding of basic spatial relationships in the design phase of the project using the elementary tools of architectural creationships in the design phase of the project using the elementary tools of architectural creationships in the design phase of the project using the elementary tools of architectural creationships in the design phase of the project using the elementary tools of architectural creationships in the design phase of the project using the elementary tools of architectural creationships in the design phase of the project using the elementary tools of architectural creationships in the design phase of the project using the elementary tools of architectural creationships in the design phase of the project using the elementary tools of architectural creationships in the design phase of the project using the elementary tools of architectural creationships in the design phase of the project using the elementary tools of architectural creationships in the design phase of the project using the elementary tools of architectural creationships in the design phase of the project using the elementary tools of architectural creationships in the design phase of the project using the elementary tools of architectural creationships in the design phase of the project using the elementary tools of architectural creationships in the design phase of the	tion.							
129DA01 History of Architecture 1	ZK	3						
Subject DA1 is an introductory series of lectures on the history of architecture. It is intended to provide the student with a basic historical overview of	the ancient and e	early medieval						
with overlaps into later epochs. It is subsidized by 2 hours per week. The basis of the lectures is to acquaint the student not only with the history of a	ncient architecture	e, but also with						
theoretical works of antiquity and with the morphology of classical orders and its use for architect's own creativity.								
129NB03 Architectural typology 3	Z	3						
The lectures are divided into 3 topics - sustainable architecture, buildings for industry and buildings for agriculture and the village. The first part is dec	dicated to building	s from the point						
of view of energy efficiency and sustainability, the second part is focused on topics related to agriculture and the specifics of the village, the last part for	cuses on the typo	logy of industrial						
buildings, presented in a historical context (pre-industrial and industrial buildings) and with regard to their basic nature of production (single-purpose,	, multi-purpose ar	nd combined						
buildings). The lectures also cover the topic of industrial heritage, its identification, evaluation and methods of protection.								
133BZA1 Concrete and Masonry Structures in Architecture 1	Z,ZK	5						
Properties of concrete and reinforcement, interaction of concrete and reinforcement, behavior (static action) of concrete elements, ultimate limit state	es - bearing capac	city of reinforced						
concrete cross-sections in bending, bearing capacity in shear, reinforcing principles for slabs and beams, elements under N+M, serviceability limit states	s. Masonry structu	res. Prestressed						
concrete.								
135GEA Geology	Z,ZK	2						
The course focuses on the understanding of basic geological laws and principles in relation to architecture, civil engineering and urban planning. Em	phasis is placed o	n explaining the						
influence of geological processes, both endogenous and exogenous, on the rock environment and how the geological situation affects the design of si	tructures and their	r interaction with						
the rock environment. At the same time, attention is paid to the technical properties of rocks with regard to their practical applications. Last but not lea	ast, the course inc	cludes a brief						
excursion into the degradation of building and decorative stone and the restoration and reconstruction of constructions made of it.								

Code of the group: BA20190600

Name of the group: Architektura a stavitelství, 6. semestr

Requirement credits in the group: In this group you have to gain at least 20 credits

Requirement courses in the group: In this group you have to complete at least 5 courses

Credits in the group: 20

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
127UR2B	Urban Planning 2 Václav Jetel, Simona Vondrá ková, Karin Dvo áková, Ji í Kupka, Tereza Jan ová, Zuzana Boušková, Tereza Kubištová Ji í Kupka Ji í Kupka (Gar.)	Z,ZK	4	2P+1C	L	Z
129DA02	History of Architecture 2 Josef Záruba Pfeffermann, Rudolf Pošva Josef Záruba Pfeffermann Josef Záruba Pfeffermann (Gar.)	ZK	3	2P	Z	Z
133BZA2	Concrete and Masonry Structures in Architecture 2 Hana Hanzlová, Karel Šeps Hana Hanzlová Hana Hanzlová (Gar.)	Z,ZK	5	2P+2C	L	Z
134DOA1	Steel and Timber Structures in Architecture 1 František Wald František Wald (Gar.)	Z,ZK	4	2P+2C	L	Z
135MZA	Soil mechanics and foundation engineering Jan Záleský, Josef Jettmar, Jan Salák Jan Záleský Jan Záleský (Gar.)	Z,ZK	4	2P+2C	L	Z

Characteristics of the courses of this group of Study Plan: Code=BA20190600 Name=Architektura a stavitelství, 6. semestr

127UR2B Urban Planning 2 Z,ZK 4 The course covers several basic thematic areas, especially an introduction to urban composition as a creative synthesis of all components of an urban work, expressed in the composition of spaces and materials, an introduction to rural urbanism, including landscape contexts and some contemporary problems of urbanism, and selected current issues of contemporary urbanism. The individual topics are interpreted in the necessary historical context, insofar as it is relevant to the current state of the subject. The exercises, among other things, test the knowledge from the urban apply the urban planning knowledge acquired so far (proposal based on the knowledge from Urbanism 1). Image: Comparison of the true of the subject of the true of the true

also with the theoretical works of Renaissance architects.

133BZA2	Concrete and Masonry Structures in Architecture 2	Z,ZK	5		
Design of concrete elen	Design of concrete elements under stress combinations, bearing capacity of slender pressed elements, bearing capacity in punching and twisting. Analysis of the behavior of reinforced				
concrete elements and structures. Design process. Static action, choice and application of calculation models and methods, procedures of simplified methods and principles of					
reinforcement of individ	reinforcement of individual types of structures - ceiling slabs, frames, walls, stairs, wall beams, basement and retaining walls, foundations. Precast structures.				
134DOA1	Steel and Timber Structures in Architecture 1	Z,ZK	4		
Students learn the steel	elements supporting structures, manufacturing, designing of beams, columns, joints, and ocelobetonovými structures, basic fii	e design and corr	osion protection.		
the multi-storey buildings and halls are introduced.					
135MZA	Soil mechanics and foundation engineering	Z,ZK	4		
Origin and composition of soil, basic properties, classification. Stresses in soil. Permeability, compressibility and strength of soils, Mohr's theory of failure. Principles of laboratory and					

Origin and composition of soil, basic properties, classification. Stresses in soil. Permeability, compressibility and strength of soils, Mohr's theory of failure. Principles of laboratory and field testing of soils. Soil pressures on structures, slope stability. Bearing capacity and deformation in flat and deep foundations. Foundation technology, construction pits. Principles of foundation soil improvement. Basic principles of monitoring in geotechnical engineering.

Code of the group: BA20150700

Name of the group: Architektura a stavitelství, 7. semestr

Requirement credits in the group: In this group you have to gain at least 30 credits

Requirement courses in the group: In this group you have to complete at least 8 courses

Credits in the group: 30

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
122TS1A	Technology of Construction Pavel Neumann, Tomáš Váchal, Václav Pospíchal, Rostislav Šulc, Michal Ková ík Tomáš Váchal Václav Pospíchal (Gar.)	Z,ZK	4	2P+1C	Z	Z
126MMA2	Economics and Management Dana M š anová, Václav Tatýrek Václav Tatýrek (Gar.)	Z,ZK	5	2P+2C	L	Z
126SPSK	Dana M š anová Dana M š anová Dana M š anová (Gar.)	Z	2	2P	Z	Z
129ATV4	Design studio (Constructional Design) Jan R ži ka, Pavel Filsak, Št pán Lajda, Ctislav Fiala, Lenka Maierová, Karel Kabele, Stanislav Frolík, Vojt ch Mazanec, Martin Stark, Jan R ži ka Jan R ži ka (Gar.)	КZ	9	6C	Z,L	Z
129DA03	History of Architecture 3 Josef Záruba Pfeffermann, Lenka Popelová, Petr Urlich, Radomíra Sedláková Josef Záruba Pfeffermann Josef Záruba Pfeffermann (Gar.)	ZK	4	2P	Z	Z
1340DA2	Steel and Timber Structures in Architecture 2 Jakub Dolejš Jakub Dolejš Jakub Dolejš (Gar.)	Z,ZK	4	2P+1C	Z	Z
136DSA	Road and Rail Construction Michal Uhlík, Michal Weber Michal Uhlík (Michal Uhlík (Gar.)	Z	2	1P+1C	Z	Z
100ODPR	Industrial Training (3 weeks) Petr Hájek, Jan R ži ka, Kate ina Sojková Michal Jandera Michal Jandera (Gar.)	Z	0	6C	Z,L	Z

Characteristics of the courses of this group of Study Plan: Code=BA20150700 Name=Architektura a stavitelství, 7. semestr

122TS1A	Technology of Construction	Z,ZK	4			
The subject deals with	basic technologies and technological procedures, as well as supplier documentation and the realization of building structures		•			
126MMA2	Economics and Management	Z,ZK	5			
Construction, civil engir	eering and construction work. Life cycle of building and project. Construction projects and documentation. Participants on co	nstruction project	s. Determining			
the cost of construction.	the cost of construction. Total construction costs. Scheduling and network analysis. Valuation of works and budgeting. Costing and bid price. Production calculation. Calculation methods.					
Public revenues and tax	system. Awarding construction contracts. Public business competition. Contract - clauses additions. Construction business.	Organizational str	ructure and			
management of constru	iction firm. Supply Management. Marketing of construction firm. Making management structures. Controlling. Site manager, fo	reman, technical :	supervision, cost			
and author. Control day	s. Construction diary. Executed work and supplies quality. Production invoice and final calculation. Changes and additions to	the budget. Buildi	ng handover			
and acceptance. Investi	nent effectiveness, Construction project evaluation. Marketing. Building changes prior completion, building handover and acce	eptance, handove	r documentation.			
Decision processes. Inv	rested energy. BOM. Audit, Documentation rules. Insolvency, RIPRAN, LEED, BREEAM. Documentation rules, Insolvency law	Ι.				
126SPSK		Z	2			
Territorial planning and	construction code law. Public procurement law. Definition of terms. Commercial contractual relationships. Main contract types	s in construction -	contract of the			
conclusion of a future c	ontract, purchase contract, contract for work, Contents of the contract.					
129ATV4	Design studio (Constructional Design)	KZ	9			
The subject of the Desi	gn studio 4 is an architectural development of selected studies from ATV 1 (residential buildings), ATV2 (small public building) or ATV3 (large p	bublic building),			
a detailed structural, ma	aterials and technology design of the whole building or its part, including structural and architectural details. Preliminary struc	tural analysis and	I building service			
systems concept are pa	rt of the students outcomes. Despite of architectural concept special attention is focused on building energy concept, complex bu	uilding quality inclu	uding sustainable			
building and quality of in	nternal microclimate.					
129DA03	History of Architecture 3	ZK	4			
The subject deals with a	rchitecture from classicism to postmodernism. Each development stage is presented in a wider social context with an emphasi	s on understandir	ng the theoretical			
basis of the given concepts. Emphasis is placed on understanding the main formal features of individual styles and directions, typological and structural development, the application						
of which is expected in future architectural practice. The subject also touches on the development of urbanism.						
1340DA2	Steel and Timber Structures in Architecture 2	Z,ZK	4			
The course introduces	students to the static and structural design of timber structures in civil engineering. Material properties, the design rules acco	rding to Europear	n standards and			
principles of good structural design are presented within the course.						

136DSA	Road and Rail Construction	Z	2			
Introduction to road con	dth layout design	 extravillan vs. 				
Intravillage. Urban engin	eering and the specifics of urban roads, new construction vs. reconstruction, width arrangement of urban roads, parking, public	mass transport an	d its preferences			
(rail and non-rail), inters	ections, bus stations. Pedestrian traffic, pedestrian crossings, residential and pedestrian zones, zones 30, adaptations for the	blind and disable	d, bicycle traffic,			
earth figure, road object	earth figure, road objects, drainage, safety equipment on roads. Roadway (and sidewalk) - construction, distribution, application, layer materials, design according to TP 170,					
implementation. Project	documentation - attachments, negative effects of transport.					
1000DPR	Industrial Training (3 weeks)	7	0			

	~	0
Professional practice is an important part of academic education in undergraduate degree programmes. The student will gain a basic understanding	of duties and pro	fessional
responsibilities. The professional practice evaluates the sum of all knowledge acquired through previous theoretical studies and is a proof of their act	quisition.	

Name of the block: Compulsory elective courses Minimal number of credits of the block: 6 The role of the block: PV

Code of the group: BA20180800_2

Name of the group: Architektura a stavitelství, povinn volitelné p edm ty, 8. semestr Requirement credits in the group: In this group you have to gain at least 6 credits Requirement courses in the group: In this group you have to complete at least 3 courses Credits in the group: 6

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
105YSAS	Sociology and Psychology Jitka Cirklová, Monika Dobiášová Jitka Cirklová Jitka Cirklová (Gar.)	Z	2	1P+1C		PV
123YSHA	Bulding Materials in Architecture Alena Vimmrová, Klára Kobeti ová, Martin Böhm, Dana N mcová Alena Vimmrová Alena Vimmrová (Gar.)	Z	2	1P+1C	L	PV
124YDRS	Timber Buildings Jan R ži ka, Jaroslav Vychytil, Marek Pokorný, Milan Peukert, Kamil Stan k, Lukáš Velebil Jaroslav Vychytil Jan R ži ka (Gar.)	Z	2	1P+1C	L	PV
124YKSD	Complex Structural Detail Ji í Pazderka, Radek Zigler Ji í Pazderka Ji í Pazderka (Gar.)	z	2	1P+1C	Z	PV
125YNST	HVAC and services design Hana Kabrhelová Hana Kabrhelová (Gar.)	Z	2	1P+1C	Z,L	PV
125YPMT	Building services systems CAD, modelling and simulation Stanislav Frolik Stanislav Frolik (Gar.)	Z	2	2C	Z,L	PV
126YVSF	Small Business Management Jana Frková, Olga Heralová Eduard Hromada Eduard Hromada (Gar.)	Z	2	1P+1C	Z,L	PV
127YSUP	Landscape Planning (seminar) Vojt ch Ko alka, Dušana Korvasová, František Brynda František Pospíšil František Pospíšil (Gar.)	Z	2	2C	L	PV
127YUR3	Urban Planning 3 Václav Jetel, František Pospíšil, Petr Durdík František Pospíšil Petr Durdík (Gar.)	Z	2	2P	L	PV
129YDA4	History of Architecture 4 Josef Záruba Pfeffermann Josef Záruba Pfeffermann Josef Záruba Pfeffermann (Gar.)	Z	2	2C	L	PV
129YOPA	Heritage preservation Klára Kroftová Klára Kroftová Klára Kroftová (Gar.)	Z	2	2P	L	PV
129YPSA	Psychology of Architecture Lukáš Kolibár, Karel Smejkal, Iva Be ová Karel Smejkal Karel Smejkal (Gar.)	Z	2	1P+1C	L	PV
132YKPA	Statics for Architecture Aleš Jíra	Z	2	1P+1C	Z,L	PV
133YBKC	Concrete and Masonry Structures 1 Petr Bílý, Jakub Holan Petr Bílý Petr Bílý (Gar.)	Z	2	2C	Z,L	PV
134YNKS	Glass Structures Martina Eliášová Martina Eliášová Martina Eliášová (Gar.)	Z	2	1P+1C	L	PV
135YKA	Stones in architecture Svatoslav Chamra, Kate ina Ková ová Kate ina Ková ová Kate ina Ková ová (Gar.)	Z	2	1P+1C	L	PV

Characteristics of the courses of this group of Study Plan: Code=BA20180800_2 Name=Architektura a stavitelství, povinn volitelné p edm ty, 8. semestr

105YSAS	Sociology and Psychology	Z	2	
The subject is conceive	d as a synthesis of selected chapters from psychology and sociology. He deals with the psychology of work and organization	, managerial psyc	chology, social	
psychology and the use of psychology in corporate communication. In the part of sociology, attention is focused on the sociology of the city and the region, the sociology of housing				
and selected themes fro	om sociology of the company.			

123YSHA Bulding Materials in Architecture		
	Z	2
Deeper knowledge of building materials from the point of view of their architectural properties. New structural materials, composite materials, smart	materials. Material	s for exterior and
interior surfaces. Choice of suitable material. Laboratory tests of some material properties - durability, frost resistance, water absorption, hardness.		
124YDRS Timber Buildings	Z	2
The aim is to present a complex overview on energy efficient timber structures. Basic theoretical and design principals are presented. The lectures a	re focused on follow	ing technologies
of timber structures: (i) heavy timber skeleton systems, (ii) light timber structures based on 2x4. (iii) CLT, (iv) log house. All technologies of timber st	tructures are prese	nted in structural
and building physics context of low energy and passive buildings.		
124YKSD Complex Structural Detail	Z	2
The aim of the course is to extend the knowledge gained in previous courses - it is intended for students who have already reached advanced level	l of knowledge abo	ut structural
problems in buildings. The content of the course is focused on the complex solution of construction details, following all legislative requirements an	d taking into accou	nt the maximum
efficiency and durability of the chosen solution.		
125YNST HVAC and services design	Z	2
Basic principles of the designing of sanitary systems, heating and ventilation. Design of the heat source, heat emitters, potable water demand, and	ount of ventilation a	ir, design of
air-handling unit and design of indoor systems.		
125YPMT Building services systems CAD, modelling and simulation	Z	2
Introductory course in computer aided modelling and design of building services systems.	1	
126YVSF Small Business Management	Z	2
The subject is divided into lectures 1 hour per week and exercises 1 hour per week. Lectures take place according to the course outline listed belo	w. In the exercise, s	students prepare
their own business plan for a selected business activity according to the specified syllabus. They draw up a plan for a start-up business. Entreprene		
self-employed person and a legal entity, e.g. Ltd. The financial plan is prepared in Excel, and the credit condition is the presentation of the business		
auditorium.		
127YSUP Landscape Planning (seminar)	Z	2
The course gives a comprehensive idea of procedures in land-use planning on specific examples, where students individually process the individu	al phases of the lar	nd-use planning
process from the analysis of the territory to a simple design and its transcription into the regulation of the territory. Successful completion of the co		
compulsory seminar work of the subject YUR3.		
127YUR3 Urban Planning 3	Z	2
Topic subject of the learning is genesis of town development and town planning in the world, in the bohemian territory and in the capital town of Pr	ague. Other topics	
present construction law in Czech Republic in the sphere of town planning. There is a view of types of town planning documents and demarcation	-	
plan procurement.		
129YDA4 History of Architecture 4	Z	2
Field exercises focused on visits to buildings under reconstruction, or buildings where various types of interventions in historical buildings can be n	nonitored. especiall	v in the canital
city of Prague. The course tries to focus on recent buildings and reconstructions that were not covered in the overview of the history of architecture		y in the cupital p
).	y in the capital
129YOPA Heritage preservation	z.	2
129YOPA Heritage preservation The heritage fund of the Czech Republic is very extensive, extremely valuable and very diverse. The abundance of cultural monuments evokes the	Z	2
	Z	2
The heritage fund of the Czech Republic is very extensive, extremely valuable and very diverse. The abundance of cultural monuments evokes the without which it is impossible to preserve this heritage for future generations.	Z	2 pnument care,
The heritage fund of the Czech Republic is very extensive, extremely valuable and very diverse. The abundance of cultural monuments evokes the without which it is impossible to preserve this heritage for future generations. 129YPSA Psychology of Architecture	Z need for quality mo	2
The heritage fund of the Czech Republic is very extensive, extremely valuable and very diverse. The abundance of cultural monuments evokes the without which it is impossible to preserve this heritage for future generations. 129YPSA Psychology of Architecture Applied application of psychology knowledge for engineering graduates.	Z need for quality mo	2 onument care, 2
The heritage fund of the Czech Republic is very extensive, extremely valuable and very diverse. The abundance of cultural monuments evokes the without which it is impossible to preserve this heritage for future generations. 129YPSA Psychology of Architecture Applied application of psychology knowledge for engineering graduates. 132YKPA Statics for Architecture	Z need for quality mo Z Z	2 pnument care, 2 2
The heritage fund of the Czech Republic is very extensive, extremely valuable and very diverse. The abundance of cultural monuments evokes the without which it is impossible to preserve this heritage for future generations. 129YPSA Psychology of Architecture Applied application of psychology knowledge for engineering graduates. 132YKPA Statics for Architecture 133YBKC Concrete and Masonry Structures 1	Z need for quality mo Z Z Z	2 onument care, 2 2 2
The heritage fund of the Czech Republic is very extensive, extremely valuable and very diverse. The abundance of cultural monuments evokes the without which it is impossible to preserve this heritage for future generations. 129YPSA Psychology of Architecture Applied application of psychology knowledge for engineering graduates. 132YKPA Statics for Architecture 133YBKC Concrete and Masonry Structures 1 Introduction to selected computer programs for structural modeling. Fundamentals of the finite element method. Basic types of elements for model	Z need for quality mo Z Z ng of structures. Pr	2 pnument care, 2 2 inciples for
The heritage fund of the Czech Republic is very extensive, extremely valuable and very diverse. The abundance of cultural monuments evokes the without which it is impossible to preserve this heritage for future generations. 129YPSA Psychology of Architecture Applied application of psychology knowledge for engineering graduates. 132YKPA Statics for Architecture 133YBKC Introduction to selected computer programs for structural modeling. Fundamentals of the finite element method. Basic types of elements for model choosing a suitable model. Practical procedures for the design and assessment of reinforced concrete structures using software tools. Principles and the structure suitable model. Practical procedures for the design and assessment of reinforced concrete structures using software tools. Principles and the structure suitable model. Practical procedures for the design and assessment of reinforced concrete structures using software tools. Principles and the structures using software tools.	Z need for quality mo Z Z ng of structures. Pr	2 pnument care, 2 2 inciples for
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The heritage fund of the Czech Republic is very extensive, extremely valuable and very diverse. The abundance of cultural monuments evokes the without which it is impossible to preserve this heritage for future generations. 129YPSA Psychology of Architecture Applied application of psychology knowledge for engineering graduates. 132YKPA Statics for Architecture 133YBKC Introduction to selected computer programs for structural modeling. Fundamentals of the finite element method. Basic types of elements for model choosing a suitable model. Practical procedures for the design and assessment of reinforced concrete structures using software tools. Principles a verification of results. Practical examples. 134YNKS Glass Structures	Z need for quality mo Z Z ing of structures. Pr nd methods of inter Z	2 pnument care, 2 2 rinciples for pretation and 2
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Minimal number of credits of the block: 0 The role of the block: PT

Code of the group: BTV_POV Name of the group: Povinná t lesná výchova Requirement credits in the group: Requirement courses in the group: In this group you have to complete at least 2 courses Credits in the group: 0 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
TV1	Physical Education	Z	0	0+2	Z	PT
TV2	Physical Education	Z	0	0+2	L	PT
TV1	cs of the courses of this group of Study Plan: Code=BTV_POV Nam	e=Povinná t les	sná vých	ova	Z	0
TV2	Physical Education				Z	0
	the block: V e group: BA20150300_V					
	e group: volitelné p edm ty pro program Architektura	a stavitolství				
	nt credits in the group:	a stavileistvi				
•	nt courses in the group:					
•	he group: 0					
Note on the	o 1					
	Name of the course / Name of the group of courses		1	,	1 1	
Code	(in case of groups of courses the list of codes of their members)	Completion	Credits	Scope	Semester	Role

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Note on the group	0:				
Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semes
129XA3K	Architectural Drawing 1 Kamila Housová Mizerová, Ctibor Havelka, Vratislav Šev ík Zuzana Pešková Vratislav Šev ík (Gar.)	KZ	1	3C	
129XA4K	Plein Air Drawing (1 week) Kamila Housová Mizerová, Jan Kašpar, Zuzana Pešková, Vratislav Šev ík Zuzana Pešková Zuzana Pešková (Gar.)	Z	1	2C	L

Characteristics of the courses of this group of Study Plan: Code=BA20150300_V Name=voliteIné p edm ty pro program Architektura a staviteIství

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129XA3K	Architectural Drawing 1	KZ	1		
The recommended XA3K drawings are exercises for those already advanced in drawing. For students, more challenging image composing is included that goes beyond the real-world					
imaging. Work on the larger format- A2 and pen drawing techniques assume experience already gained from previous required exercises. Drawing machines and vehicles in the					
collections of the National Museum of Agriculture in Prague and the National Technical Museum has become a traditional drawing training for students. The composition is about					
blending and combining	the overall shape of the machine with details exaggerated in scale that are characteristic of its function in practical use. The	aim is to practice	spatial vision		
and the ability to design	the actual arrangement of the composition of an object and its masses in a given space. On this basis, the quality of the drawi	ng expression is fu	urther assessed.		
129XA4K	Plein Air Drawing (1 week)	Z	1		
Drawing en plein air. The	e opportunity for full concentration and intensive work is made possible by a number of days of continuous drawing practice.	It brings an increa	ase in the level		
of drawing as well as the opportunity to try other art techniques: watercolour, pastel, red, charcoal, etc. The aim of the plein air is to practise drawing and the use of painting techniques					
from sketch, compositional sketch to more demanding studies. Emphasis is placed on depicting space through seen perspective, capturing proportional relationships and scale. On					
this basis, the artistic qu	ality of the drawing or painting is further appreciated.				

Name of the block: Compulsory elective courses Minimal number of credits of the block: 4 The role of the block: S

Code of the group: BA20150100_1

Name of the group: Architektura a stavitelství, povinn volitelný p edm t, 1. semestr Requirement credits in the group: In this group you have to gain at least 2 credits Requirement courses in the group: In this group you have to complete at least 1 course Credits in the group: 2

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
101YPZO	Computer Modelling of Objects Iva Malechová, Hana Lakomá Hana Lakomá (Gar.)	Z	2	2C	Z	S
105YPDF	Digital Photography Markéta Štindlová Markéta Štindlová Markéta Štindlová (Gar.)	Z	2	2C	Z	S

105YPRA	Law (general) Pavla Vo íšková Pavla Vo íšková Pavla Vo íšková (Gar.)	Z	2	2P	Z	S
105YRET	Rhetoric Monika Dobiášová Jitka Cirklová Monika Dobiášová (Gar.)	Z	2	2C	Z,L	S
124YZSK	Plotting of Building Structures Michal Ženíšek Michal Ženíšek Jan R ži ka (Gar.)	Z	2	2C	Z,L	S

Characteristics of the courses of this group of Study Plan: Code=BA20150100_1 Name=Architektura a stavitelství, povinn volitelný

101YPZO Computer Modelling of Objects Z 2 Modeling of specified objects and own designs in 3D and visualization of obtained models. The tools used are the surface 3D NURBS modeler Rhinoceros and the parametric model module Grasshoper. 105YPDF Digital Photography Z 2 105YPDF Digital Photographic equipment and general and specific imaging techniques for various photodocumentation areas. We also pay special attent to digital image processing, basic optimization and advanced editing techniques. The basic software tools will be. Adobe Photoshop and Camera RAW. After mastering the technique of building a photographic image, the course will lead learners to understand the specific speech of photography. We will clarify the principles of photographic image, compositional patterns and the possibilities of art solutions and effects. The subject follows the path from simple mechanical recording to author's expression. It will lead the listener to master all means of photographic process from scanning, through editing to printing. The output will be asmall set of each listener with an exhibition potential. The seminarrar will not avoid any genre, but emphasis will be placed on the photo of architecture. Z 2 105YPRA Law (general) Z 2 2 105YPRA Law (general) Z 2 105YPR	o edm t, 1. semes			
module Grasshopper. Z 2 105YPDF Digital Photography Z 2 In the introduction, the basic technical principles of creating and preserving the electronic image will be explained as a basis for understanding the entire system. Further lessons w be devoted to the construction and control of photographic equipment and general and specific imaging techniques for various photodocumentation areas. We also pay special attent to digital image processing, basic optimization and advanced editing techniques. The basic software tools will be. Adobe Photoshop and Camera RAW. After mastering the techniqu of building a photographic image, the course will lead learners to understand the specific speech of photography. We will clarify the principles of photographic image, compositional patterns and the possibilities of art solutions and effects. The subject follows the path from simple mechanical recording to author's expression. It will lead the listener to master all means of photography and composing procedures to achieve perfect picture information as well as emotional exposure to the viewer. The form of the course is quite practical, semin atelier. Some tasks will be solved by the teacher together with the teacher, the other separately, with the procedures and results being consulted and discussed in the group. The tuto will cover the entire photographic process from scanning, through editing to printing. The output will be a small set of each listener with an exhibition potential. The seminar program will not avoid any genre, but emphasis will be placed on the photo of architecture. 105YPRA Law (general) Z 2 105YPRA Law (general) Z 2 105YPRA Law (gener	101YPZO	Computer Modelling of Objects	Z	2
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patterns and the possibilities of art solutions and effects. The subject follows the path from simple mechanical recording to author's expression. It will lead the listener to master all the means of photography and composing procedures to achieve perfect picture information as well as emotional exposure to the viewer. The form of the course is quite practical, seminaratelier. Some tasks will be solved by the teacher together with the teacher, the other separately, with the procedures and results being consulted and discussed in the group. The tuto will cover the entire photographic process from scanning, through editing to printing. The output will be a small set of each listener with an exhibition potential. The seminar program will not avoid any genre, but emphasis will be placed on the photo of architecture. 105YPRA Law (general) Z 2 105YRET Rhetoric Z 2 The participants of this course shall gain and improve skills that are needed for successful professional communication in practice. The study helps to develop culture and effectivene of verbal communication in written and oral form and of nonverbal communication. It assists in overcoming eventual psychological barriers during public performance, so that the	to digital image process	ing, basic optimization and advanced editing techniques. The basic software tools will be. Adobe Photoshop and Camera RA	V. After mastering	g the techniques
means of photography and composing procedures to achieve perfect picture information as well as emotional exposure to the viewer. The form of the course is quite practical, seminar atelier. Some tasks will be solved by the teacher together with the teacher, the other separately, with the procedures and results being consulted and discussed in the group. The tuto will cover the entire photographic process from scanning, through editing to printing. The output will be a small set of each listener with an exhibition potential. The seminar program will not avoid any genre, but emphasis will be placed on the photo of architecture. 105YPRA Law (general) Z 2 105YRET Rhetoric Z 2 The participants of this course shall gain and improve skills that are needed for successful professional communication in practice. The study helps to develop culture and effectivene of verbal communication in written and oral form and of nonverbal communication. It assists in overcoming eventual psychological barriers during public performance, so that the	of building a photograph	nic image, the course will lead learners to understand the specific speech of photography. We will clarify the principles of phot	ographic image, o	compositional
atelier. Some tasks will be solved by the teacher together with the teacher, the other separately, with the procedures and results being consulted and discussed in the group. The tuto will cover the entire photographic process from scanning, through editing to printing. The output will be a small set of each listener with an exhibition potential. The seminar program will not avoid any genre, but emphasis will be placed on the photo of architecture. 105YPRA Law (general) Z 2 105YRET Rhetoric Z 2 The participants of this course shall gain and improve skills that are needed for successful professional communication in practice. The study helps to develop culture and effectivene of verbal communication in written and oral form and of nonverbal communication. It assists in overcoming eventual psychological barriers during public performance, so that the			01 07	
will cover the entire photographic process from scanning, through editing to printing. The output will be a small set of each listener with an exhibition potential. The seminar program will not avoid any genre, but emphasis will be placed on the photo of architecture. 105YPRA Law (general) Z 2 105YRET Rhetoric Z 2 The participants of this course shall gain and improve skills that are needed for successful professional communication in practice. The study helps to develop culture and effectivener of verbal communication in written and oral form and of nonverbal communication. It assists in overcoming eventual psychological barriers during public performance, so that the	patterns and the possib	ilities of art solutions and effects. The subject follows the path from simple mechanical recording to author's expression. It will		-
will not avoid any genre, but emphasis will be placed on the photo of architecture. 105YPRA Law (general) Z 2 105YRET Rhetoric Z 2 The participants of this course shall gain and improve skills that are needed for successful professional communication in practice. The study helps to develop culture and effectiveners of verbal communication in written and oral form and of nonverbal communication. It assists in overcoming eventual psychological barriers during public performance, so that the	means of photography a	and composing procedures to achieve perfect picture information as well as emotional exposure to the viewer. The form of the	lead the listener course is quite pr	to master all the actical, seminar,
105YPRA Law (general) Z 2 105YRET Rhetoric Z 2 The participants of this course shall gain and improve skills that are needed for successful professional communication in practice. The study helps to develop culture and effectiveners of verbal communication in written and oral form and of nonverbal communication. It assists in overcoming eventual psychological barriers during public performance, so that the	means of photography a atelier. Some tasks will b	and composing procedures to achieve perfect picture information as well as emotional exposure to the viewer. The form of the be solved by the teacher together with the teacher, the other separately, with the procedures and results being consulted and d	lead the listener course is quite pr iscussed in the g	to master all the actical, seminar, roup. The tutorial
105YRET Rhetoric Z 2 The participants of this course shall gain and improve skills that are needed for successful professional communication in practice. The study helps to develop culture and effectivener of verbal communication in written and oral form and of nonverbal communication. It assists in overcoming eventual psychological barriers during public performance, so that the	means of photography a atelier. Some tasks will b will cover the entire pho	and composing procedures to achieve perfect picture information as well as emotional exposure to the viewer. The form of the be solved by the teacher together with the teacher, the other separately, with the procedures and results being consulted and d tographic process from scanning, through editing to printing. The output will be a small set of each listener with an exhibition	lead the listener course is quite pr iscussed in the g	to master all the actical, seminar, roup. The tutorial
The participants of this course shall gain and improve skills that are needed for successful professional communication in practice. The study helps to develop culture and effectivener of verbal communication in written and oral form and of nonverbal communication. It assists in overcoming eventual psychological barriers during public performance, so that the	means of photography a atelier. Some tasks will b will cover the entire pho will not avoid any genre	and composing procedures to achieve perfect picture information as well as emotional exposure to the viewer. The form of the be solved by the teacher together with the teacher, the other separately, with the procedures and results being consulted and d tographic process from scanning, through editing to printing. The output will be a small set of each listener with an exhibition , but emphasis will be placed on the photo of architecture.	lead the listener course is quite pr iscussed in the g	to master all the actical, seminar, roup. The tutorial
of verbal communication in written and oral form and of nonverbal communication. It assists in overcoming eventual psychological barriers during public performance, so that the	means of photography a atelier. Some tasks will b will cover the entire pho will not avoid any genre	and composing procedures to achieve perfect picture information as well as emotional exposure to the viewer. The form of the be solved by the teacher together with the teacher, the other separately, with the procedures and results being consulted and d tographic process from scanning, through editing to printing. The output will be a small set of each listener with an exhibition , but emphasis will be placed on the photo of architecture.	lead the listener course is quite pr iscussed in the g	to master all the actical, seminar, roup. The tutorial
	means of photography a atelier. Some tasks will t will cover the entire pho will not avoid any genre 105YPRA	and composing procedures to achieve perfect picture information as well as emotional exposure to the viewer. The form of the be solved by the teacher together with the teacher, the other separately, with the procedures and results being consulted and d tographic process from scanning, through editing to printing. The output will be a small set of each listener with an exhibition , but emphasis will be placed on the photo of architecture. Law (general)	lead the listener course is quite pr iscussed in the gr potential. The ser Z	to master all the actical, seminar, roup. The tutorial ninar program 2
speaker can build up a favorable personal image in the audience. These skills can be employed even outside the professional field. The course instructs also on preparation of writt	means of photography a atelier. Some tasks will t will cover the entire pho will not avoid any genre 105YPRA 105YRET	and composing procedures to achieve perfect picture information as well as emotional exposure to the viewer. The form of the be solved by the teacher together with the teacher, the other separately, with the procedures and results being consulted and d tographic process from scanning, through editing to printing. The output will be a small set of each listener with an exhibition but emphasis will be placed on the photo of architecture. Law (general) Rhetoric	lead the listener course is quite pr iscussed in the gr potential. The ser Z Z	to master all the actical, seminar, roup. The tutorial ninar program 2 2
	means of photography a atelier. Some tasks will t will cover the entire pho will not avoid any genre 105YPRA 105YRET The participants of this of	and composing procedures to achieve perfect picture information as well as emotional exposure to the viewer. The form of the be solved by the teacher together with the teacher, the other separately, with the procedures and results being consulted and d tographic process from scanning, through editing to printing. The output will be a small set of each listener with an exhibition , but emphasis will be placed on the photo of architecture. Law (general) Rhetoric course shall gain and improve skills that are needed for successful professional communication in practice. The study helps to	lead the listener course is quite pr iscussed in the gr potential. The ser Z develop culture a	to master all the actical, seminar, roup. The tutorial ninar program 2 2 nd effectiveness
material and visual aids. The ?Rhetoric? course covers the foundations of the field and serves as an overview course.	means of photography a atelier. Some tasks will t will cover the entire pho will not avoid any genre 105YPRA 105YRET The participants of this o of verbal communication	and composing procedures to achieve perfect picture information as well as emotional exposure to the viewer. The form of the be solved by the teacher together with the teacher, the other separately, with the procedures and results being consulted and d tographic process from scanning, through editing to printing. The output will be a small set of each listener with an exhibition, but emphasis will be placed on the photo of architecture. Law (general) Rhetoric course shall gain and improve skills that are needed for successful professional communication in practice. The study helps to n in written and oral form and of nonverbal communication. It assists in overcoming eventual psychological barriers during put	lead the listener course is quite pr iscussed in the gr potential. The ser Z develop culture a blic performance,	to master all the actical, seminar, roup. The tutorial ninar program 2 2 nd effectiveness so that the
124YZSK Plotting of Building Structures Z 2	means of photography a atelier. Some tasks will b will cover the entire pho will not avoid any genre 105YPRA 105YRET The participants of this of of verbal communication speaker can build up a f	and composing procedures to achieve perfect picture information as well as emotional exposure to the viewer. The form of the be solved by the teacher together with the teacher, the other separately, with the procedures and results being consulted and d tographic process from scanning, through editing to printing. The output will be a small set of each listener with an exhibition, but emphasis will be placed on the photo of architecture. Law (general) Rhetoric course shall gain and improve skills that are needed for successful professional communication in practice. The study helps to n in written and oral form and of nonverbal communication. It assists in overcoming eventual psychological barriers during put favorable personal image in the audience. These skills can be employed even outside the professional field. The course instruction is provided to the professional field. The course instruction is provided to the professional field.	lead the listener course is quite pr iscussed in the gr potential. The ser Z develop culture a blic performance,	to master all the actical, seminar, roup. The tutorial ninar program 2 2 nd effectiveness so that the
The subject is focused on drawing construction drawings and the basics of AutoCAD.	means of photography a atelier. Some tasks will b will cover the entire pho will not avoid any genre 105YPRA 105YRET The participants of this of of verbal communication speaker can build up a f material and visual aids	and composing procedures to achieve perfect picture information as well as emotional exposure to the viewer. The form of the be solved by the teacher together with the teacher, the other separately, with the procedures and results being consulted and d tographic process from scanning, through editing to printing. The output will be a small set of each listener with an exhibition, but emphasis will be placed on the photo of architecture. Law (general) Rhetoric course shall gain and improve skills that are needed for successful professional communication in practice. The study helps to n in written and oral form and of nonverbal communication. It assists in overcoming eventual psychological barriers during pulfavorable personal image in the audience. These skills can be employed even outside the professional field. The course instru-	lead the listener course is quite pr iscussed in the gr potential. The ser Z develop culture a blic performance,	to master all the actical, seminar, roup. The tutorial ninar program 2 2 nd effectiveness so that the

Code of the group: BA20190200_1

Name of the group: Architektura a stavitelství, po íta ová grafika, 2. semestr Requirement credits in the group: In this group you have to gain at least 2 credits Requirement courses in the group: In this group you have to complete at least 1 course Credits in the group: 2

Note	on	the	group:	
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Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
129YGA1	ArchiCad 1 - Elementary Klára Škodová, Anna Marie erná, Martin Sou ek, Martin Štibor, Vladimír Hamata Vojt ch Dvo ák Vojt ch Dvo ák (Gar.)	Z	2	2C	L,Z	S
129YGA2	ArchiCad 2 - Advanced Anna Marie erná, Vladimír Hamata Vojt ch Dvo ák Vojt ch Dvo ák (Gar.)	Z	2	2C	L,Z	S
129YGCI	Cinema Jan Dvo ák Vojt ch Dvo ák Vojt ch Dvo ák (Gar.)	Z	2	2C	L,Z	S
129YGRE	Revit Vojt ch Dvo ák, Martin Sou ek, Jakub Pospíšil, Jaroslav Novotný Vojt ch Dvo ák Vojt ch Dvo ák (Gar.)	Z	2	2C	L,Z	S
129YG3D	3D Max Vojt ch Dvo ák Vojt ch Dvo ák Vojt ch Dvo ák (Gar.)	Z	2	2C	L,Z	S
155YGIS	ArcGIS Ji í Cajthaml, Tomáš Janata Ji í Cajthaml Tomáš Janata (Gar.)	Z	2	2C	L	S

Characteristics of the courses of this group of Study Plan: Code=BA20190200_1 Name=Architektura a stavitelství, po íta ová grafika, 2. semestr

129YGA1	ArchiCad 1 - Elementary	Z	2					
The aim of the course is to master the basic tools, features and functions of ArchiCAD for construction and architectural design activities. The course focuses on mastering the basic								
of working with parametric 3D objects for creating virtual buildings including terrain, furnishing objects, etc., modelling some atypical shapes, generating project documentation includin								
photorealistic outputs (r	enders).							
129YGA2	ArchiCad 2 - Advanced	Z	2					
The course complement	ts, deepens and develops the knowledge of working in ArchiCAD acquired in the basic course (129YACD1). The course focu	ses mainly on me	thods and tools					
for creating custom libra	rry elements, including the use of GDL, as well as details of the creation and features of selected ArchiCAD components.							
129YGCI	Cinema	7	2					
1201001	The aim of the subject is to present the methods and concepts of creating computer 3D models using general 3D modelers. In the subject, we offer the features of the world-renowned							
		ne features of the	world-renowned					
	s to present the methods and concepts of creating computer 3D models using general 3D modelers. In the subject, we offer the	ne features of the	world-renowned					
The aim of the subject i	s to present the methods and concepts of creating computer 3D models using general 3D modelers. In the subject, we offer the	ne features of the	world-renowned					
The aim of the subject i Cinema 4D software fro 129YGRE	s to present the methods and concepts of creating computer 3D models using general 3D modelers. In the subject, we offer the m Maxon.	Z	2					
The aim of the subject i Cinema 4D software fro 129YGRE The Revit building proje	s to present the methods and concepts of creating computer 3D models using general 3D modelers. In the subject, we offer the m Maxon. Revit	Z uction professiona	2 als to develop					

129YG3D	3D Max	Z	2					
Fundamentals of mode	Fundamentals of modelling and visualisation software. Students will practice various modeling techniques that they can use in their architectural designs. Emphasis is placed on							
modeling and high qua	lity deliverables - renderings, from initial designs to final high quality renderings.							
155YGIS	ArcGIS	Z	2					

Name of the block: Jazyky Minimal number of credits of the block: 3 The role of the block: J

Code of the group: BF20190201_J Name of the group: Povinn volitelný jazyk, 2. semestr Requirement credits in the group: In this group you have to gain at least 1 credit Requirement courses in the group: In this group you have to complete at least 1 course Credits in the group: 1 Note on the aroun.

Note on the group						
Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
104YCA1	English 1 Hana Horká, Petra Martincová, Petra Florianová, Sandra Giormani, Svatava Boboková Bartíková, V ra ermáková, Karolína Synková, Alexandra Steinerová, Elena Da eva, Svatava Boboková Bartíková Sandra Giormani (Gar.)	Z	1	2C	Z,L	J
104YCN1	German 1 Svatava Boboková Bartíková Svatava Boboková Bartíková Svatava Boboková Bartíková (Gar.)	Z	1	2C	Z,L	J

Characteristics of the courses of this group of Study Plan: Code=BF20190201_J Name=Povinn voliteIný jazyk, 2. semestr

104YCA1 English 1

Ζ 1 English 1 Course code: 104Y CA1 Scope: 0 + 2 (practical sessions) Number of credits: 1 Final assessment: credit The aim of the compulsory English course is to enhance the knowledge of lexis and grammar within the scope of the chosen field of study and university studies in general (Academic English); the overall focus is on professional language (i.e., ESP technical style) and communicative competence within the construction industry. The course also seeks to teach students to read technical literature and to be able to produce essential written discourse and to express themselves in writing on issues in their field of study. The end of course requirements are a credit. Literature: Horká Hana, Giormani Sandra, Martincová Petra, Nivenová Renata : Professional English for Civil Engineering (Units 1 - 5) 104YCN1 German 1 Ζ The compulsory course - German Language for Civil Engineering is aimed at practising professional vocabulary within the scope of the construction industry, understanding professional texts, and learning the necessary presentation skills in order to present all relevant professional issues. The end-of-course requirement is a credit. Literature: A.Hanáková, J.Dressel: Deutsch im Bauwesen

Code of the group: BF20190302_J

Name of the group: Povinn volitelný jazyk, 3. semestr

Requirement credits in the group: In this group you have to gain at least 2 credits Requirement courses in the group: In this group you have to complete at least 1 course Credits in the group: 2

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
104YC2A	English 2 Hana Horká, Petra Martincová, Petra Florianová, Sandra Giormani, Svatava Boboková Bartíková, V ra ermáková, Karolína Synková, Alexandra Steinerová, Elena Da eva, Svatava Boboková Bartíková Sandra Giormani (Gar.)	Z,ZK	2	2C		J
104YC2N	German 2 Svatava Boboková Bartíková Sandra Giormani Svatava Boboková Bartíková (Gar.)	Z,ZK	2	2C		J

Characteristics of the courses of this group of Study Plan: Code=BF20190302_J Name=Povinn voliteIný jazyk, 3. semestr

104YC2A	English 2	Z,ZK	2
English 2 Course code:	104YC2A Scope: 0 + 2 (practical sessions) Number of credits: 1 Final assessment: credit and exam The aim of the compulsion	ory English course	e is to enhance
the knowledge of lexis a	nd grammar within the scope of the chosen field of study and university studies in general (Academic English); the overall fo	cus is on professi	onal language
(i.e., ESP - technical sty	le) and communicative competence within the construction industry. The course also seeks to teach students to read technic	al literature and te	o be able to
produce essential writte	n discourse and to express themselves in writing on issues in their field of study. The end of course requirements are a credi	t and an examinat	tion. Literature:
Horká Hana, Giormani	Sandra, Martincová Petra, Nivenová Renata : Professional English for Civil Engineering (Units 6 10)		
104YC2N	German 2	Z,ZK	2
The compulsory course	- German Language for Civil Engineering is aimed at practising professional vocabulary within the scope of the construction inc	dustry, understand	ling professional
texts, and learning the r	ecessary presentation skills in order to present all relevant professional issues. The end-of-course requirement is a credit. Li	terature: A.Hanák	ová, J.Dressel:
Deutsch im Bauwesen			

Code of the group: BA20230400_1

Name of the group: volba atelieru, 4. semestr

Requirement credits in the group: In this group you have to gain at least 6 credits

Requirement courses in the group: In this group you have to complete at least 1 course

Credits in the group: 6

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
129AT02	Design studio 2 Tomáš Gaál, Richard Bartík, Libor Fránek, Helena Hexnerová, Jolana Zdobinská, Jana Ho ická, Vojt ch Dvo ák, Jan Kašpar, Ladislav Tichý, Jana Ho ická Petr Šikola (Gar.)	κz	6	6C	Z	00
129IAS2	International Design Studio 2 Hana Bo íková, Eva Linhartová, Michal Hlavá ek Michal Hlavá ek Michal Hlavá ek (Gar.)	КZ	6	6C	L	00

Characteristics of the courses of this group of Study Plan: Code=BA20230400_1 Name=volba atelieru, 4. semestr

 129AT02
 Design studio 2
 KZ
 6

 The theme of the studio is a small-scale building with one operating circuit in a specific environment. It is a building of a common type of civic amenity of a smaller size. An integral part of the brief is the associated outdoor public space.

 129IAS2
 International Design Studio 2
 KZ
 6

 As part of the bachelor's degree, it is possible to complete the studio 129IAS2 International Architectural Studio 2 in English, instead of the studio 129AT02, taught in a joint group with foreign students who come to the university primarily as part of the Erasmus+ program. Students work in teams (2-3 members) in such a way that there should not be students from

the same country in the team. This creates the possibility of establishing new relationships, gaining experience from a different work and cultural environment, and expanding communication skills. The IAS2 studio offers the opportunity to prepare for work in an international environment or for an internship abroad. Part of the studio teaching is a 4-day workshop at the FSv training center in Tel .

Code of the group: BA20190600_1

Name of the group: volba atelieru, 6. semestr

Requirement credits in the group: In this group you have to gain at least 10 credits

Requirement courses in the group: In this group you have to complete at least 1 course Credits in the group: 10

Note on the group.

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
129ATA3	Design studio 3 Helena Hexnerová, Vojt ch Dvo ák, Petra Novotná, Ji í Trojan, Aleš Van k, Radek Zykan, Petr Lédl, Luboš Knytl, Anna Šlapetová, Petr Lédl Petr Lédl (Gar.)	КZ	10	8C	L	00
129IAS3	International Architectural Studio 3 Hana Bo íková, Michal Hlavá ek Michal Hlavá ek (Gar.)	KZ	10	8C	L	00

Characteristics of the courses of this group of Study Plan: Code=BA20190600_1 Name=volba atelieru, 6. semestr

129ATA3	Design studio 3	KZ	10		
Studio work is the subje	et of an application in which students are combining the lessons learned from a wide spectrum of architectural disciplines w	th their own opini	on and artistic		
creativity. In this third de	esign studio students deal with various types of civil buildings with more complicated service and ambitious operation site wit	h more complicat	ed relationships.		
After a broad discussio	n, reflection and assessments of structures built on similar topics, students submit their own proposals in the form of architec	tural study.			
129IAS3	International Architectural Studio 3	KZ	10		
As part of the bachelor	As part of the bachelor's degree, it is possible to complete the studio 129IAS3 International Architectural Studio 3 in English, instead of the studio 129ATA3, taught in a joint group with				
foreign students who co	foreign students who come to the university primarily as part of the Erasmus+ program. Students work in teams (2-3 members) in such a way that there should not be students from				
the same country in the	the same country in the team. This creates the possibility of establishing new relationships, gaining experience from a different work and cultural environment, and expanding				
communication skills. T	communication skills. The IAS2 studio offers the opportunity to prepare for work in an international environment or for an internship abroad. Part of the studio teaching is a 4-day				
workshop at the FSv tra	aining center in Tel .				
L					

Name of the block: Povinn volitelné p edm ty, doporu ení S1 Minimal number of credits of the block: 24 The role of the block: S1

Code of the group: BA20180800_1

Name of the group: Architektura a stavitelství, bakalá ská práce Requirement credits in the group: In this group you have to gain at least 24 credits Requirement courses in the group: In this group you have to complete at least 1 course Credits in the group: 24 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members)	Completion	Credits	Scope	Semester	Role
124BPAA	Tutors, authors and guarantors (gar.) Bachelor Thesis Jaroslav Vychytil, Kate ina Mertenová Petr Hájek	Z	24	16C	L,Z	S1
125BPAA	Bachelor Thesis Hana Kabrhelová Stanislav Frolík (Gar.)	Z	24	16C	L,Z	S1
127BPAA	Bachelor Thesis Ivan Kaplan, Václav Jetel, Daniel Stojan, Karin Dvo áková, Ji í Kupka, Kate ina Štréblová Hronovská, Ji í Kugl, Jan Hendrych Ji í Kupka Ji í Kupka (Gar.)	Z	24	16C	L,Z	S1
129BPAA	Bachelor Thesis Helena Hexnerová, Hana Bo íková, Vojt ch Dvo ák, Ladislav Tichý, Václav Dvo ák, Petra Novotná, Zuzana Pešková, Jaroslav Da a, Št pán Lajda, Mikuláš Hulec Mikuláš Hulec (Gar.)	Z	24	16C	L,Z	S1

Characteristics of the courses of this group of Study Plan: Code=BA20180800_1 Name=Architektura a stavitelství, bakalá ská práce

124BPAA Bachelor Thesis	Z	24			
The topics of bachelor's theses are based on the needs of practice or the scientific research activities of the department, scope and difficulty corres	pond to the stude	nt's knowledge			
acquired during bachelor's studies. The supervisor of the bachelor's thesis can designate additional consultants to the student.					
125BPAA Bachelor Thesis	Z	24			
Bachelor Thesis is the result of the Bachelor degree study programme. It should prove student's ability to work independently in the area of Building	Services System	s. The thesis can			
cover theoretical aspects or to focus on practical application on an object within building services systems. Students consult the supervisor and spe	cialists from other	departments.			
The thesis is presented in front of the commission.					
127BPAA Bachelor Thesis	Z	24			
The first qualification thesis - an independent professional work of the student, of a larger scope - completing the bachelor's degree of study. The de	fence of the bach	elor thesis is one			
of the components of the state final examination.					
129BPAA Bachelor Thesis	Z	24			
The bachelor's thesis is the basic part of the SZZ. In it, the student demonstrates erudition, creativity and independence. Every bachelor of architecture A+S FSv CTU should be able					
to design a quality building with a scale and complexity corresponding to a family house. The topic of the bachelor thesis is the design of a family house	ouse on a specific	site according to			
the assignment of the thesis supervisor, with emphasis on the context and individuality of the developer, taking into account the requirements for low	w energy consump	otion.			

List of courses of this pass:

Code	Name of the course	Completion	Credits
1000DPR	Industrial Training (3 weeks)	Z	0
Professional pra	ctice is an important part of academic education in undergraduate degree programmes. The student will gain a basic understanding	of duties and prof	essional
respons	sibilities. The professional practice evaluates the sum of all knowledge acquired through previous theoretical studies and is a proof of	of their acquisition.	
101KGA1	Constructive Geometry A	Z,ZK	5
Projections and pro	ojective methods. Axonometry. Oblique projection. Orthogonal axonometry. Displaying prisms, cones, cylinders, pyramids, balls. Sin	ple problems in ax	onometry.
Basics of lighting of	of solids and groupes of solids. Perspective projection. Photogrammetry. Curves, parametrisation. Helical surfaces. Quadrics. Hyperl	oolic paraboloid, co	noids and
	cylindroids. Next surfaces in building industry.		
101M1A	Mathematics 1A	Z,ZK	6
	https://mat.fsv.cvut.cz/vyuka/bakalari/eng/zs/MT01/		
101M2A	Mathematics 2A	Z,ZK	4
1	https://mat.fsv.cvut.cz/vyuka/bakalari/eng/ls/MT02/		I
101M3A	Mathematics 3A	Z,ZK	4
I	https://mat.fsv.cvut.cz/vyuka/bakalari/M3A	1 .	
101YPZO	Computer Modelling of Objects	Z	2
Modeling of specified	d objects and own designs in 3D and visualization of obtained models. The tools used are the surface 3D NURBS modeler Rhinocerc	s and the paramet	ric modelin
	module Grasshopper.		
104YC2A	English 2	Z,ZK	2
English 2 Course co	ode: 104YC2A Scope: 0 + 2 (practical sessions) Number of credits: 1 Final assessment: credit and exam The aim of the compulsory	English course is	to enhance
the knowledge of le	exis and grammar within the scope of the chosen field of study and university studies in general (Academic English); the overall focu	is is on professiona	al language
(i.e., ESP - technie	cal style) and communicative competence within the construction industry. The course also seeks to teach students to read technic	al literature and to l	be able to
produce essential w	vritten discourse and to express themselves in writing on issues in their field of study. The end of course requirements are a credit a		. Literature:
	Horká Hana, Giormani Sandra, Martincová Petra, Nivenová Renata : Professional English for Civil Engineering (Units 6 10))	
104YC2N	German 2	Z,ZK	2
	rse - German Language for Civil Engineering is aimed at practising professional vocabulary within the scope of the construction indus		
texts, and learning t	the necessary presentation skills in order to present all relevant professional issues. The end-of-course requirement is a credit. Liter	ature: A.Hanáková	, J.Dressel
	Deutsch im Bauwesen		

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writen discuries and to express themselves in writing on issues in their field of study. The end of course requirements are a credit. Literature: Index Hena, Giornani Sanda, Meritinova Petra, Neverinova Renais : Proteinscional English to Cult Engineering (Literature - 1-5). 104/CVM C 1 105/CPDF Coll Engineering (Literature): Index of the construction index within the scope of the construction index with understanding proteinscional variability within the scope of the construction index with. J Dreset: Detection in Bauveen 105/CPDF Digital Photography Z 2 106 structure, the basic technical principles of reading and preserving the declement and specific imaging techniques for various photodocouncember areas. We also pay genelial attechnic in adjust and percenses of the construction areas. We also pay genelial attechnical index of the constructure in adjust and percenses of the c
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effects. Influence of building structures and materials on quality of indoor microclimate. Design of buildings with respect to optimisation of indoor microclimate. Fire Safety Analysis of fire - course of fire, burning process, fire loading; legislation and European Standards; fire safety solutions - fire project, requirement for fire resistance of buildings, escape ways, distance separation, fire-fighting equipment; fire behaviour of the most used materials (wood, steel, concrete, plastics); protection of building materials against fire (brickwork, concreting, plasters and sprays, coatings, impregnates of wood, encasements, glued facings of mineral fibres); sandwiches from fire point of view; influence of claddings on the course fire; passive
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distance separation, fire-fighting equipment; fire behaviour of the most used materials (wood, steel, concrete, plastics); protection of building materials against fire (brickwork, concreting, plasters and sprays, coatings, impregnates of wood, encasements, glued facings of mineral fibres); sandwiches from fire point of view; influence of claddings on the course fire; passive
plasters and sprays, coatings, impregnates of wood, encasements, glued facings of mineral fibres); sandwiches from fire point of view; influence of claddings on the course fire; passive
protection of building structures - fire walls, fire glazed structures, fire ceiling, draft stops and seals; repressive measures - electric fire signalling, stationary extinguishing devices, smoke
extract, hydrant systems.
124SFA Building Physics 1A Z,ZK 7
124SFA Building Physics 1A Z,ZK 7 Heat transfer, Fourier laws, thermal resistance, thermal transmittance, mean thermal transmittance, energy performance of buildings, energy need for heating, energy use, primary
124SFA Building Physics 1A Z,ZK 7 Heat transfer, Fourier laws, thermal resistance, thermal transmittance, mean thermal transmittance, energy performance of buildings, energy need for heating, energy use, primary energy, diffusion and condensation of water vapor, internal surface temperature, risk of mould growth, thermal bridges and joints. Solar radiation and its importance. Determining the
124SFA Building Physics 1A Z,ZK 7 Heat transfer, Fourier laws, thermal resistance, thermal transmittance, mean thermal transmittance, energy performance of buildings, energy need for heating, energy use, primary energy, diffusion and condensation of water vapor, internal surface temperature, risk of mould growth, thermal bridges and joints. Solar radiation and its importance. Determining the position of the Sun in the sky using numerical and graphical methods. Insolation. Meaning of terms, requirements. Daylighting. Criteria and limits. Lighting systems. The principle of
124SFA Building Physics 1A Z,ZK 7 Heat transfer, Fourier laws, thermal resistance, thermal transmittance, mean thermal transmittance, energy performance of buildings, energy need for heating, energy use, primary energy, diffusion and condensation of water vapor, internal surface temperature, risk of mould growth, thermal bridges and joints. Solar radiation and its importance. Determining the

124YDRS	Timber Buildings	Z	2
The aim is to prese	ent a complex overview on energy efficient timber structures. Basic theoretical and design principals are presented. The lectures are foc	used on following te	echnologies
of timber structure	s: (i) heavy timber skeleton systems, (ii) light timber structures based on 2x4. (iii) CLT, (iv) log house. All technologies of timber structu	res are presented	in structural
	and building physics context of low energy and passive buildings.		
124YKSD	Complex Structural Detail	Z	2
The aim of the c	ourse is to extend the knowledge gained in previous courses - it is intended for students who have already reached advanced level of	knowledge about	structural
problems in buildir	ngs. The content of the course is focused on the complex solution of construction details, following all legislative requirements and tak	ng into account the	e maximum
	efficiency and durability of the chosen solution.		
124YZSK	Plotting of Building Structures	Z	2
	The subject is focused on drawing construction drawings and the basics of AutoCAD.	I	
125BPAA	Bachelor Thesis	Z	24
	the result of the Bachelor degree study programme. It should prove student's ability to work independently in the area of Building Ser	- 1	
	aspects or to focus on practical application on an object within building services systems. Students consult the supervisor and specia	-	
	The thesis is presented in front of the commission.		saranonto.
125TB2		Z,ZK	4
120102	Building Services Systems 2	· .	4
	This subject includes an introduction to ventilation and air conditioning in buildings and solutions for electric instalations and artificia		
125TBA1	Building Services Systems 1	Z,ZK	4
	Basic course in building services systems - water supply, drainage, gas supply and heating systems.		
125YNST	HVAC and services design	Z	2
Basic principles	of the designing of sanitary systems, heating and ventilation. Design of the heat source, heat emitters, potable water demand, amour	t of ventilation air,	design of
	air-handling unit and design of indoor systems.		
125YPMT	Building services systems CAD, modelling and simulation	Z	2
	Introductory course in computer aided modelling and design of building services systems.	I	
126MMA2	Economics and Management	Z,ZK	5
	ECONOMICS and Management I engineering and construction work. Life cycle of building and project. Construction projects and documentation. Participants on cons	· ·	
			-
	ction. Total construction costs. Scheduling and network analysis. Valuation of works and budgeting. Costing and bid price. Production ca		
	instruction firm. Supply Management. Marketing of construction firm. Making management structures. Controlling. Site manager, forem	-	
-	rol days. Construction diary. Executed work and supplies quality. Production invoice and final calculation. Changes and additions to the		
	ivestment effectiveness, Construction project evaluation. Marketing. Building changes prior completion, building handover and accepta	• •	
	ecision processes. Invested energy. BOM. Audit, Documentation rules. Insolvency, RIPRAN, LEED, BREEAM. Documentation rules, Ir		umentation.
			0
126SPSK		Z	2
lerritorial planning	g and construction code law. Public procurement law. Definition of terms. Commercial contractual relationships. Main contract types in	construction - con	tract of the
	conclusion of a future contract, purchase contract, contract for work, Contents of the contract.		
126YVSF	Small Business Management	Z	2
-	ded into lectures 1 hour per week and exercises 1 hour per week. Lectures take place according to the course outline listed below. In		
	s plan for a selected business activity according to the specified syllabus. They draw up a plan for a start-up business. Entrepreneursh	-	
self-employed per	son and a legal entity, e.g. Ltd. The financial plan is prepared in Excel, and the credit condition is the presentation of the business pla	n in power point in	front of the
	auditorium.		
127BPAA	Bachelor Thesis	Z	24
The first qualification	on thesis - an independent professional work of the student, of a larger scope - completing the bachelor's degree of study. The defend	e of the bachelor t	hesis is one
	of the components of the state final examination.		
127UB01	Urban Planing 1	Z,ZK	6
	duces the student to individual functional systems in cities and their zones and prepares him/her for designing parts of settlements fr		
	pan design conditions. In particular, it focuses on the design conditions of residential zones and parcelling, traffic calming and segrega		
	preen spaces, etc. It supplements the overview and conceptual principles with a number of examples from the Czech Republic and ab	-	
	to apply the knowledge to the design of an urban residential complex for the first time, first using a model example.		
127UR2B	Urban Planning 2	Z,ZK	4
	several basic thematic areas, especially an introduction to urban composition as a creative synthesis of all components of an urban work		
	erials, an introduction to rural urbanism, including landscape contexts and some contemporary problems of urbanism, and selected c	-	-
-	lividual topics are interpreted in the necessary historical context, insofar as it is relevant to the current state of the subject. The exerci		
	the knowledge from the lectures and apply the urban planning knowledge acquired so far (proposal based on the knowledge from U	-	ningo, toot
			2
127YSUP	Landscape Planning (seminar)	Z	2
-	a comprehensive idea of procedures in land-use planning on specific examples, where students individually process the individual ph		
process from the	analysis of the territory to a simple design and its transcription into the regulation of the territory. Successful completion of the course	will replace the ind	dependent
	compulsory seminar work of the subject YUR3.		
127YUR3		Z	2
	Urban Planning 3	I	concerned
I procont construction	he learning is genesis of town development and town planning in the world, in the bohemian territory and in the capital town of Prague	e. Other topics are	
	he learning is genesis of town development and town planning in the world, in the bohemian territory and in the capital town of Prague on law in Czech Republic in the sphere of town planning. There is a view of types of town planning documents and demarcation of co	e. Other topics are	
	he learning is genesis of town development and town planning in the world, in the bohemian territory and in the capital town of Prague on law in Czech Republic in the sphere of town planning. There is a view of types of town planning documents and demarcation of co plan procurement.	e. Other topics are npetences in the p	rocesses of
129AAKO	he learning is genesis of town development and town planning in the world, in the bohemian territory and in the capital town of Prague on law in Czech Republic in the sphere of town planning. There is a view of types of town planning documents and demarcation of co	e. Other topics are	
129AAKO	he learning is genesis of town development and town planning in the world, in the bohemian territory and in the capital town of Prague on law in Czech Republic in the sphere of town planning. There is a view of types of town planning documents and demarcation of co plan procurement.	e. Other topics are npetences in the p KZ	rocesses of
129AAKO	he learning is genesis of town development and town planning in the world, in the bohemian territory and in the capital town of Prague on law in Czech Republic in the sphere of town planning. There is a view of types of town planning documents and demarcation of complan procurement.	e. Other topics are npetences in the p KZ	rocesses of
129AAKO	he learning is genesis of town development and town planning in the world, in the bohemian territory and in the capital town of Prague on law in Czech Republic in the sphere of town planning. There is a view of types of town planning documents and demarcation of complan procurement. Architectural composition studio apply knowledge acquired in the subject Introduction to Architecture Design to simple abstract tasks. Principles of Form and Space C	e. Other topics are npetences in the p KZ	rocesses of
129AAKO Students learn to 129AKR	The learning is genesis of town development and town planning in the world, in the bohemian territory and in the capital town of Prague on law in Czech Republic in the sphere of town planning. There is a view of types of town planning documents and demarcation of com- plan procurement. Architectural composition studio apply knowledge acquired in the subject Introduction to Architecture Design to simple abstract tasks. Principles of Form and Space C abstract surface and spatial composition. The physical model as a form of verification of compositional intentions.	e. Other topics are npetences in the p KZ composition. Idea a	rocesses of 4 and form of 4
129AAKO Students learn to 129AKR In architectural du	he learning is genesis of town development and town planning in the world, in the bohemian territory and in the capital town of Prague on law in Czech Republic in the sphere of town planning. There is a view of types of town planning documents and demarcation of com- plan procurement. Architectural composition studio apply knowledge acquired in the subject Introduction to Architecture Design to simple abstract tasks. Principles of Form and Space C abstract surface and spatial composition. The physical model as a form of verification of compositional intentions. Architectural drawing	Other topics are not set of the provided	A and form of 4 erspective.
129AAKO Students learn to 129AKR In architectural du Models are first as	The learning is genesis of town development and town planning in the world, in the bohemian territory and in the capital town of Prague on law in Czech Republic in the sphere of town planning. There is a view of types of town planning documents and demarcation of com- plan procurement. Architectural composition studio apply knowledge acquired in the subject Introduction to Architecture Design to simple abstract tasks. Principles of Form and Space C abstract surface and spatial composition. The physical model as a form of verification of compositional intentions. Architectural drawing rawing courses, students learn to correctly perceive and "see" shapes and masses in their proportional relationships, spatial context,	A. Other topics are near the provided of	rocesses of 4 and form of 4 erspective. format and
129AAKO Students learn to 129AKR In architectural dr Models are first ar to use view, horizo	The learning is genesis of town development and town planning in the world, in the bohemian territory and in the capital town of Prague on law in Czech Republic in the sphere of town planning. There is a view of types of town planning documents and demarcation of com- plan procurement. Architectural composition studio apply knowledge acquired in the subject Introduction to Architecture Design to simple abstract tasks. Principles of Form and Space C abstract surface and spatial composition. The physical model as a form of verification of compositional intentions. Architectural drawing rawing courses, students learn to correctly perceive and "see" shapes and masses in their proportional relationships, spatial context, sseemblies of geometric solids, then supplemented with draperies and other objects. The listener learns to lay out and optimally place	A. Other topics are near the provided of the transformation of the term of the transformation of the term of term	And form of 4 and form of 4 erspective. format and al vision and
129AAKO Students learn to 129AKR In architectural dr Models are first ar to use view, horizo	The learning is genesis of town development and town planning in the world, in the bohemian territory and in the capital town of Prague on law in Czech Republic in the sphere of town planning. There is a view of types of town planning documents and demarcation of com- plan procurement. Architectural composition studio apply knowledge acquired in the subject Introduction to Architecture Design to simple abstract tasks. Principles of Form and Space C abstract surface and spatial composition. The physical model as a form of verification of compositional intentions. Architectural drawing rawing courses, students learn to correctly perceive and "see" shapes and masses in their proportional relationships, spatial context, ssemblies of geometric solids, then supplemented with draperies and other objects. The listener learns to lay out and optimally place n and runs to build the final composition. Ongoing instruction aids in pencil progression while profiling personal handwriting. The goal	A. Other topics are near the provided of the transformation of the term of the transformation of the term of term	And form of 4 and form of 4 erspective. format and al vision and
129AAKO Students learn to 129AKR In architectural dr Models are first ar to use view, horizo	The learning is genesis of town development and town planning in the world, in the bohemian territory and in the capital town of Prague on law in Czech Republic in the sphere of town planning. There is a view of types of town planning documents and demarcation of com- plan procurement. Architectural composition studio apply knowledge acquired in the subject Introduction to Architecture Design to simple abstract tasks. Principles of Form and Space O abstract surface and spatial composition. The physical model as a form of verification of compositional intentions. Architectural drawing rawing courses, students learn to correctly perceive and "see" shapes and masses in their proportional relationships, spatial context, ssemblies of geometric solids, then supplemented with draperies and other objects. The listener learns to lay out and optimally place n and runs to build the final composition. Ongoing instruction aids in pencil progression while profiling personal handwriting. The goal ng and sketching, which is indispensable as a means of communication in architectural design. Consistent attention is paid to aspects	A. Other topics are near the provided of the transformation of the term of the transformation of the term of term	And form of 4 and form of 4 erspective. format and al vision and
129AAKO Students learn to 129AKR In architectural du Models are first ar to use view, horizo gain skills in drawi 129AT01	The learning is genesis of town development and town planning in the world, in the bohemian territory and in the capital town of Prague on law in Czech Republic in the sphere of town planning. There is a view of types of town planning documents and demarcation of com- plan procurement. Architectural composition studio apply knowledge acquired in the subject Introduction to Architecture Design to simple abstract tasks. Principles of Form and Space C abstract surface and spatial composition. The physical model as a form of verification of compositional intentions. Architectural drawing rawing courses, students learn to correctly perceive and "see" shapes and masses in their proportional relationships, spatial context, ssemblies of geometric solids, then supplemented with draperies and other objects. The listener learns to lay out and optimally place n and runs to build the final composition. Ongoing instruction aids in pencil progression while profiling personal handwriting. The goal ng and sketching, which is indispensable as a means of communication in architectural design. Consistent attention is paid to aspect the expression of light and shadow, plasticity, structure and differentiation of materials.	Conter topics are needed to the period of the period of the period of the period of the drawing in the second of the drawing in the second of the drawing in the second of the period of the peri	rocesses of 4 and form of 4 erspective. format and al vision and as in space, 6
129AAKO Students learn to 129AKR In architectural du Models are first at to use view, horizo gain skills in drawi 129AT01 Studio creation is	The learning is genesis of town development and town planning in the world, in the bohemian territory and in the capital town of Prague on law in Czech Republic in the sphere of town planning. There is a view of types of town planning documents and demarcation of com- plan procurement. Architectural composition studio apply knowledge acquired in the subject Introduction to Architecture Design to simple abstract tasks. Principles of Form and Space C abstract surface and spatial composition. The physical model as a form of verification of compositional intentions. Architectural drawing rawing courses, students learn to correctly perceive and "see" shapes and masses in their proportional relationships, spatial context, ssemblies of geometric solids, then supplemented with draperies and other objects. The listener learns to lay out and optimally place n and runs to build the final composition. Ongoing instruction aids in pencil progression while profiling personal handwriting. The goal ng and sketching, which is indispensable as a means of communication in architectural design. Consistent attention is paid to aspect the expression of light and shadow, plasticity, structure and differentiation of materials. Design studio 1	Conter topics are needed and the period of the drawing in the second of the drawing in the second of the period of the peri	A and form of 4 and form of 4 arspective. format and al vision and al vision and as in space, 6 adivity. The

surroundings, the object's own spatial structure, layout solution, structural feasibility. It is essential to find a modern artistic and aesthetic expression in surrounding buildings. Understanding of basic spatial relationships in the design phase of the project using the elementary tools of archi	-	lace and the
129AT02 Design studio 2	KZ	6
The theme of the studio is a small-scale building with one operating circuit in a specific environment. It is a building of a common type of civic amenity o		-
of the brief is the associated outdoor public space.		
129ATA3 Design studio 3	KZ	10
Studio work is the subject of an application in which students are combining the lessons learned from a wide spectrum of architectural disciplines with	-	
creativity. In this third design studio students deal with various types of civil buildings with more complicated service and ambitious operation site with r After a broad discussion, reflection and assessments of structures built on similar topics, students submit their own proposals in the form of		
129ATV4 Design studio (Constructional Design)	KZ	9
The subject of the Design studio 4 is an architectural development of selected studies from ATV 1 (residential buildings), ATV2 (small public building)	1	-
a detailed structural, materials and technology design of the whole building or its part, including structural and architectural details. Preliminary structural	al analysis and buil	ding service
systems concept are part of the students outcomes. Despite of architectural concept special attention is focused on building energy concept, complex build building and quality of internal microclimate.	ing quality including	sustainable
129ATZ1 Introductory design studio 1	KZ	4
The Studio is the student's first experience of designing a specific building on a specific site. This course follows architectural composition course, which		1 -
as an abstract composition of smaller parts in relation to a larger whole. The core of the course is the architectural design process applied to the design	n of a simple buildin	ng. The main
goal of the course in general is the mastery of architectural design techniques along with the further development of creativity initiated in architectural of the work is to design a court building on a court of the size o	composition. The sp	ecific aim of
the work is to design a small building - an operationally simple object in the context of specified conditions. 129ATZ2 Introductory design studio 2	KZ	6
129ATZ2 Introductory design studio 2 The studio follows previous course of Introductory design studio 1. The main focus of the course is to extend the application of the architectural design		-
and ergonomic issues. The main aim of the general teaching is, along with the further development of creativity, the mastery of architectural design prod		
habits and the layout of design work applied to small-scale assignments. The specific aim of the work is the design of a small building, typologically specific aim of the work is the design of a small building, typologically specific aim of the work is the design of a small building.	-	
129BPAA Bachelor Thesis	Z	24
The bachelor's thesis is the basic part of the SZZ. In it, the student demonstrates erudition, creativity and independence. Every bachelor of architecture		
to design a quality building with a scale and complexity corresponding to a family house. The topic of the bachelor thesis is the design of a family house the context and individuality of the developer taking into account the requirements for	-	-
the assignment of the thesis supervisor, with emphasis on the context and individuality of the developer, taking into account the requirements for 129DA01 History of Architecture 1	ZK	3
Subject DA1 is an introductory series of lectures on the history of architecture. It is intended to provide the student with a basic historical overview of t	1	
with overlaps into later epochs. It is subsidized by 2 hours per week. The basis of the lectures is to acquaint the student not only with the history of and		-
theoretical works of antiquity and with the morphology of classical orders and its use for architect's own creativity.	1	
129DA02 History of Architecture 2	ZK	3
The course DA2 is the second series of lectures on history of architecture. It is intended to provide the student with a basic historical overview of the overlaps into later eras. It is subsidized for 2 hours a week. The basis of the lectures is to acquaint the student not only with the history of medieval and		
also with the theoretical works of Renaissance architects.	leany modern arch	ilecture, but
129DA03 History of Architecture 3	ZK	4
The subject deals with architecture from classicism to postmodernism. Each development stage is presented in a wider social context with an emphasis of	on understanding the	e theoretical
The subject deals with architecture from classicism to postmodernism. Each development stage is presented in a wider social context with an emphasis of basis of the given concepts. Emphasis is placed on understanding the main formal features of individual styles and directions, typological and structure	on understanding the	e theoretical
The subject deals with architecture from classicism to postmodernism. Each development stage is presented in a wider social context with an emphasis of basis of the given concepts. Emphasis is placed on understanding the main formal features of individual styles and directions, typological and structure of which is expected in future architectural practice. The subject also touches on the development of urbanism.	al development, the	e theoretical application
The subject deals with architecture from classicism to postmodernism. Each development stage is presented in a wider social context with an emphasis of basis of the given concepts. Emphasis is placed on understanding the main formal features of individual styles and directions, typological and structure	al development, the	e theoretical application 5
The subject deals with architecture from classicism to postmodernism. Each development stage is presented in a wider social context with an emphasis of basis of the given concepts. Emphasis is placed on understanding the main formal features of individual styles and directions, typological and structure of which is expected in future architectural practice. The subject also touches on the development of urbanism. 129GPA Graphic Presentation of Architecture	al development, the	e theoretical application 5
The subject deals with architecture from classicism to postmodernism. Each development stage is presented in a wider social context with an emphasis of basis of the given concepts. Emphasis is placed on understanding the main formal features of individual styles and directions, typological and structure of which is expected in future architectural practice. The subject also touches on the development of urbanism. 129GPA Graphic Presentation of Architecture The GPA course is divided into 2 parallel and complementary parts. One part is devoted to pictorial representation and consists of three lessons per wee of architectural drawing and methods of representation - drawing objects in orthogonal, isometric and perspective form, drawing offset figures, drawing solids. The second part is devoted to mastering the basic tools of computer imaging and is subsidised for 2 hours. Students will learn how to make a vertice of the second part is devoted to mastering the basic tools of computer imaging and is subsidised for 2 hours. Students will learn how to make a vertice of the second part is devoted to mastering the basic tools of computer imaging and is subsidised for 2 hours. Students will learn how to make a vertice of the second part is devoted to mastering the basic tools of computer imaging and is subsidised for 2 hours.	h understanding that development, the KZ k. Students will lear greenery and basi	theoretical application 5 in the basics c geometric a simple 3D
The subject deals with architecture from classicism to postmodernism. Each development stage is presented in a wider social context with an emphasis of basis of the given concepts. Emphasis is placed on understanding the main formal features of individual styles and directions, typological and structure of which is expected in future architectural practice. The subject also touches on the development of urbanism. 129GPA Graphic Presentation of Architecture The GPA course is divided into 2 parallel and complementary parts. One part is devoted to pictorial representation and consists of three lessons per wee of architectural drawing and methods of representation - drawing objects in orthogonal, isometric and perspective form, drawing offset figures, drawing solids. The second part is devoted to mastering the basic tools of computer imaging and is subsidised for 2 hours. Students will learn how to make a very model of an object, use post-production to present the object, and assemble the resulting poster from the output of various computer programs. The complete the resulting poster from the output of various computer programs. The complete the resulting poster from the output of various computer programs. The complete the resulting poster from the output of various computer programs. The complete the resulting poster from the output of various computer programs. The complete the resulting poster from the output of various computer programs. The complete the resulting poster from the output of various computer programs. The complete the resulting poster from the output of various computer programs. The complete the resulting poster from the output of various computer programs. The complete the resulting poster from the output of various computer programs. The complete the resulting poster from the output of various computer programs. The complete the resulting poster from the output of various complete programs.	h understanding th al development, the KZ k. Students will lear greenery and basi ctor sketch, create purse therefore has	e theoretical application 5 n the basics c geometric a simple 3D a total of 5
The subject deals with architecture from classicism to postmodernism. Each development stage is presented in a wider social context with an emphasis of basis of the given concepts. Emphasis is placed on understanding the main formal features of individual styles and directions, typological and structure of which is expected in future architectural practice. The subject also touches on the development of urbanism. 129GPA Graphic Presentation of Architecture The GPA course is divided into 2 parallel and complementary parts. One part is devoted to pictorial representation and consists of three lessons per wee of architectural drawing and methods of representation - drawing objects in orthogonal, isometric and perspective form, drawing offset figures, drawing solids. The second part is devoted to mastering the basic tools of computer imaging and is subsidised for 2 hours. Students will learn how to make a vertice of the second part is devoted to mastering the basic tools of computer imaging and is subsidised for 2 hours. Students will learn how to make a vertice of the second part is devoted to mastering the basic tools of computer imaging and is subsidised for 2 hours. Students will learn how to make a vertice of the second part is devoted to mastering the basic tools of computer imaging and is subsidised for 2 hours.	k. Students will lear greenery and basi ctor sketch, create burse therefore has urs on drawing + 50	e theoretical application 5 n the basics c geometric a simple 3D a total of 5 hours on
The subject deals with architecture from classicism to postmodernism. Each development stage is presented in a wider social context with an emphasis of basis of the given concepts. Emphasis is placed on understanding the main formal features of individual styles and directions, typological and structure of which is expected in future architectural practice. The subject also touches on the development of urbanism. 129GPA Graphic Presentation of Architecture The GPA course is divided into 2 parallel and complementary parts. One part is devoted to pictorial representation and consists of three lessons per wee of architectural drawing and methods of representation - drawing objects in orthogonal, isometric and perspective form, drawing offset figures, drawing solids. The second part is devoted to mastering the basic tools of computer imaging and is subsidised for 2 hours. Students will learn how to make a very model of an object, use post-production to present the object, and assemble the resulting poster from the output of various computer programs. The object for teaching per week and is worth 5 credits, which means that a student should spend 125 hours on the course in one semester (75 hours)	k. Students will lear greenery and basi ctor sketch, create burse therefore has urs on drawing + 50	e theoretical application 5 n the basics c geometric a simple 3D a total of 5 hours on
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132YKPA Statics for Architecture Z 2
133BZA1 Concrete and Masonry Structures in Architecture 1 Z,ZK 5
133BZA1 Concrete and Masonry Structures in Architecture 1 Z,ZK 5 roperties of concrete and reinforcement, interaction of concrete and reinforcement, behavior (static action) of concrete elements, ultimate limit states - bearing capacity of reinforced
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134DOA1	Steel and Timber Structures in Architecture 1	Z,ZK	4	
Students learn the s	steel elements supporting structures, manufacturing, designing of beams, columns, joints, and ocelobetonovými structures, basic fire de	esign and corrosior	n protection.	
	the multi-storey buildings and halls are introduced.			
1340DA2	Steel and Timber Structures in Architecture 2	Z,ZK	4	
The course introdu	ces students to the static and structural design of timber structures in civil engineering. Material properties, the design rules accordin	ng to European sta	ndards and	
	principles of good structural design are presented within the course.			
134YNKS	Glass Structures	Z	2	
The course is intend	ding to introduce the students the field of structural applications of glass and to give them some specific skills for calculation and detaili	ng of for basic glass	s structures:	
panes beams and	d fins, columns and walls, point-supported glass, as well as for glazing systems such as glass facades, canopies and roofs, stairs an	d floors. On this pu	rpose the	
properties of glas	s as structural material will be presented in comparison with other basic building materials, together with selected examples of glass.	/glazing applicatior	ns. Design	
details and connect	ting technology, relevant technical regulations, specification and current methods applied in design will be described. Worked example	es will accompany	the lectures	
	for better understanding, and design project will help to fix specific knowledge.			
135GEA	Geology	Z,ZK	2	
The course focuses	on the understanding of basic geological laws and principles in relation to architecture, civil engineering and urban planning. Empha	isis is placed on ex	plaining the	
influence of geologi	ical processes, both endogenous and exogenous, on the rock environment and how the geological situation affects the design of struc	tures and their inte	raction with	
the rock environm	ent. At the same time, attention is paid to the technical properties of rocks with regard to their practical applications. Last but not lease	st, the course inclue	des a brief	
	excursion into the degradation of building and decorative stone and the restoration and reconstruction of constructions made	of it.		
135MZA	Soil mechanics and foundation engineering	Z,ZK	4	
Origin and compos	ition of soil, basic properties, classification. Stresses in soil. Permeability, compressibility and strength of soils, Mohr's theory of failur	e. Principles of lab	oratory and	
field testing of soils	. Soil pressures on structures, slope stability. Bearing capacity and deformation in flat and deep foundations. Foundation technology,	construction pits. F	Principles of	
	foundation soil improvement. Basic principles of monitoring in geotechnical engineering.			
135YKA	Stones in architecture	Z	2	
The course "Stone in Architecture" is an excursion into the use of natural stone as a building and decorative material, not only from the perspective of the present but also from the				
past. Emphasis is placed on the familiarity with the main properties of rocks that affect their usability in practice, what influences these properties both in the formation itself and over				
time in construction. Attention is paid to the methods of quarrying stone, the possibilities and methods of its working, the specifics of the use of stone in the exterior and interior. At the				
same time, attention is paid to the problems of durability and restoration and reconstruction of stone objects. Last but not least, students are introduced to the basic technical standards				
related to the issu	ie. The course includes two excursions to the building and decorative stone of Prague, if possible also to a demonstration of the reco	nstruction or resto	ration of a	
historical building.				
136DSA	Road and Rail Construction	Z	2	
Introduction to roa	d construction, legislation and regulations, design elements of the route, function of communication depending on its meaning, width	layout design - ext	ravillan vs.	
Intravillage. Urban e	engineering and the specifics of urban roads, new construction vs. reconstruction, width arrangement of urban roads, parking, public mas	s transport and its	preferences	
(rail and non-rail), in	ntersections, bus stations. Pedestrian traffic, pedestrian crossings, residential and pedestrian zones, zones 30, adaptations for the blin	nd and disabled, bi	cycle traffic,	
earth figure, ro	ad objects, drainage, safety equipment on roads. Roadway (and sidewalk) - construction, distribution, application, layer materials, de	sign according to T	TP 170,	
	implementation. Project documentation - attachments, negative effects of transport.			
154SGEA	Land Surveying	Z,ZK	5	
Basic information	n on the Earth, angle and distance measurement, basics of geodetic calculation (traverse, intersection), determination of heights, ba	sics of setting-out,	maps for	
designing, basics	of photogrammetry, basics of error theory and adjustment calculus, determination of areas and volumes, modern geodetic instrume	ents and methods (electronic	
	techeometers, GPS, laser scanners), basic geodetic rules.			
155YGIS	ArcGIS	Z	2	
TV1	Physical Education	Z	0	
TV2	Physical Education	Z	0	

For updated information see <u>http://bilakniha.cvut.cz/en/FF.html</u> Generated: day 2025-07-21, time 23:32.